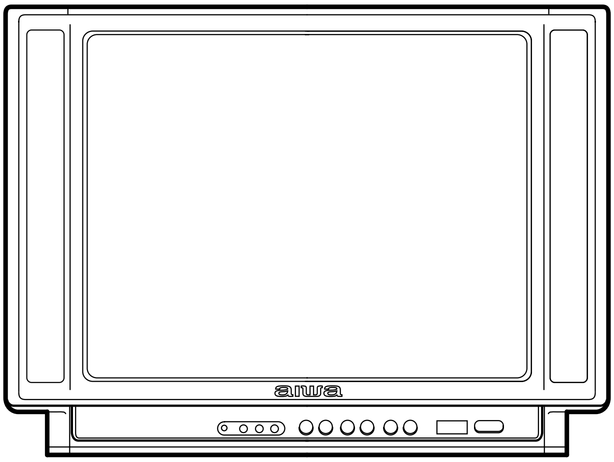
TV-SA2055 KE



SERVICE MANUAL

COLOR TELEVISION

• This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-003-431-5T1).

• This Service Manual does not include “DISASSEMBLY INSTRUCTIONS” and “ADJUSTMENT”. These items will be issued in the next Supplement.

REVISION DATA

S/M Code No. 09-005-431-5R1

To make the best use of this equipment, make sure to obey the following items when repairing (or mending).

1. Do not damage or melt the tunicate of the leading wire on the AC1 side, including the power supply cord.
2. Do not soil or stain the letters on the spec. inscription plates, notice labels, fuse labels, etc.
3. When repairing the part extracted from the conducted side of the board pattern, fix it firmly with applying bond to the pattern and the part.
4. Restore the following items after repairing.
   1) Conditions of soldering of the wires (especially, the distance on the AC1 side).
   2) Conditions of wiring, bundling of wires, etc.
   3) Types of the wries.
   4) Attachment conditions of all types of the insulation.
5. After repairing, always measure the insulation resistance and perform the voltage-withstand test (See Fig-1).

1) The insulation resistance must be 6.0 to 10 MΩ when applying 500V per second.
2) In the voltage withstand test, apply 1.0 KV for 1 minute and check that the GO lamp lights.

* Breaking current set to 10 mA.
* Connect the safety checker as shown in Fig-1, then measure the resistance and perform the test.
* Do not touch the equipment during testing.
* For details of the safety checker, refer to the supplied Operation manual.

Insulation resistance: 6.0 to 10 MΩ (500 V/s) Voltage-withstand: 1.0 KV for 1 minute

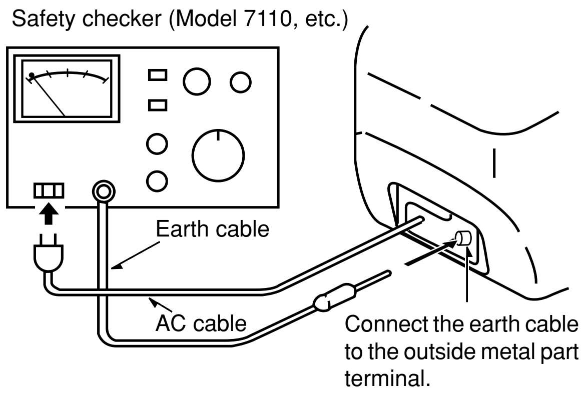


Fig-1

When servicing and checking on the TV, note the followings.

1. Keep the notices.
   As for the places which need special attentions, they are indicated with labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.
2. Avoid an electric shock.
   There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.
3. Use the designated parts.
   The parts in this equipment have the specific characteristics of incombustibility and withstand voltage for safety.
   Therefore, use a part which has the same character as the replaced part. Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts with a ⚠ mark, the designated parts must be used.
4. Put parts and wires in the original position after assembling or wiring.
   There are parts which use the insulation material such as a tube or tape for safety, or which are assembled so that these parts do not make contact with the printed board. The inside wiring is designed not to get close to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.
5. Take care of the cathode-ray tube.
   By setting an explosion-proof cathode-ray tube in this equipment, safety is secured against implosion. However, when removing it or servicing from the back, it gives out shock that is dangerous. Take enough care to deal with it.
6. Avoid an X-ray.
   Safety is secured against an X-ray by giving considerations to the cathode-ray tube and the high voltage peripheral circuit, etc. Therefore, when repairing the high voltage peripheral circuit, use the designated parts and do not change the circuit. Repairing, except indicates, causes rising of high voltage, and the cathode-ray tube emits an X-ray.
7. Perform a safety check after servicing.
   Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are deteriorated portions around the places serviced.

⚠ Safety Components Symbol

This symbol is given to important parts which serve to maintain the safety of the product, and which are made to confirm to special Safety Specifications.
Therefore, when replacing a component with this symbol make absolutely sure that you use a designated part.

SPECIFICATIONS

Tuner System	Frequency synthesized tuner
TV System	PAL (B/G, H, D/K) SECAM (B/G, D/K, K1)
Channel Coverage	VHF: E2 to E12, R1 to R12 UHF: 21 to 69 CATV: S1 to S41
Program Memory	100 TV stations
Antenna Input	75 ohms, unbalanced
Picture Tube	20"
Screen Size	404 (W) X 303 (H) mm (16 x 12 in.) 408 mm (visible diagonal) (19 in.)
Video Input/Output	1 Vp-p 75 ohms
Audio Input	-8dBs., more than 33 kohms
Audio Output	-8dBs., less than 2.2 kohms
Speaker	60 X 120 mm ($2^3/_8$ X $4^3/_4$ in.)
Operating Voltage	110-240 V AC, 50/60 Hz
Power Consumption	80 W (Standby mode: 13.5 W)
Phone Jack	Stereo-mini jack
Operating Temperature	5 °C – 40 °C
Operating Humidity	35 % – 80 %
Dimensions	610 (W) X 440 (H) X 483(D) mm ($24^1/_8$ x $17^3/_8$ x $19\ ^1/_8$ in.)
Weight	19.4kg (42.68 lbs.)

- Design and specifications are subject to change without notice.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE sound, Inc.

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8A-JEH-651-010		IC,TMP87CP38N
	87-A21-133-080		IC,BMR-0101D
	87-A91-538-010		RCR UNIT,SBX1981-72P
	87-A21-433-010		IC,KS24C041I
	87-A21-165-010		IC,TB1240AN
	87-A21-166-010		IC,TA1275AZ
	87-A21-259-010		IC,MM1454XD
	87-A21-345-010		IC,NJM2150
	87-A20-312-010		IC,M62420SP
	87-A21-299-010		IC,LA6458SLL
	87-A21-169-010		IC,MM1124B
	87-A21-283-010		IC,AN5277
	87-070-237-010		IC,LA7832
	87-A21-344-010		IC,STR-F6656
	87-020-903-010		IC,NJM7805FA
	87-A20-389-010		IC,NJM7809FA
	87-027-666-010		IC,TC4052BP
	87-A21-261-010		IC,MSP3417D
TRANSISTOR			
	87-A30-066-080		TR,2SA1175FE
	87-A30-090-080		FET,2SK2541
	87-A30-091-080		FET,2SJ460
	89-337-794-580		TR,2SC3779 D/E
	87-A30-065-080		TR,2SC2785FE
	89-109-504-080		TR,2SA950Y
	87-026-218-080		TR,DTC144ES (0.2W)
	87-A30-121-080		TR,DTC 323 TS
	87-A30-005-010		TR,2SC2688M/L
	87-A30-095-010		TR,2SD2333LS
	89-334-674-580		TR,2SC3467 D/E
	87-A30-041-110		TR,SE115N
	89-110-155-080		TR,2SA1015GR
	89-324-122-080		C-TR,2SC2412KR
DIODE			
	87-070-345-080		DIODE,IN4148
	87-A40-347-080		ZENER MTZJ2.2B
	87-070-444-080		ZENER,HZS33-1
	87-A40-235-080		ZENER,MTZJ9.1C
	87-A40-350-080		ZENER,MTZJ 4.7C
	87-070-092-080		DIODE,S5566B
	87-A40-286-080		DIODE,RGP10JE-5025
	87-A40-794-080		DIODE,EGP20G
	87-017-654-060		DIODE,GBU6J
	87-A40-509-080		ZENER,MTZJ6.8C
	87-A40-450-090		DIODE,RU 1P
	87-A40-354-090		DIODE,UF3GL-6251
	87-A40-611-080		ZENER,MTZJ3.9B
MAIN C.B			
C1	87-018-151-080		CAP, TC U 20P-50V
C2	87-A11-073-080		CAP, TC U 22P-50V
C3	87-010-405-080		CAP, ELECT 10-50V
C4	87-018-134-080		CAPACITOR,TC-U 0.01-16
C5	87-010-263-080		CAP, ELECT 100-10 M
C6	87-018-119-080		CAP, CER 100P-50V
C7	87-010-405-080		CAP, ELECT 10-50V
C8	87-010-405-080		CAP, ELECT 10-50V
C9	87-018-134-080		CAPACITOR,TC-U 0.01-16
C10	87-018-119-080		CAP, CER 100P-50V
C11	87-018-119-080		CAP, CER 100P-50V
C13	87-010-405-080		CAP, ELECT 10-50V
C14	87-018-129-080		CAP,TC-U 680P-50 K B
C15	87-018-149-080		CAP,TC-U 15P-50 CH
C16	87-018-149-080		CAP,TC-U 15P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C17	87-010-404-080		CAP, ELECT 4.7-50V
C100	87-010-384-080		CAP,E 100-25 SME
C101	87-010-404-080		CAP, ELECT 4.7-50V
C102	87-018-134-080		CAPACITOR,TC-U 0.01-16
C103	87-010-384-080		CAP, ELECT 100-25V
C104	87-018-134-080		CAPACITOR,TC-U 0.01-16
C105	87-010-263-080		CAP, E 100-10 M SME
C106	87-A10-207-080		CAP,TCS 0.01-50KBUP050
C107	87-018-134-080		CAPACITOR,TC-U 0.01-16
C108	87-018-132-080		CAP, CER 2200P-16V
C110	87-018-132-080		CAP, CER 2200P-16V
C111	87-018-132-080		CAP, CER 2200P-16V
C113	87-010-260-080		CAP, ELECT 47-25V
C117	87-018-134-080		CAP, TC U 0.01-16
C121	87-018-134-080		CAPACITOR,TC-U 0.01-16
C122	87-010-260-080		CAP, ELECT 47-25V
C123	87-018-134-080		CAPACITOR,TC-U 0.01-16
C124	87-010-401-080		CAP, ELECT 1-50V
C125	87-018-134-080		CAPACITOR,TC-U 0.01-16
C126	87-010-544-080		CAP, ELECT 0.1-50V
C127	87-018-119-080		CAP, CER 100P-50V
C128	87-018-134-080		CAPACITOR,TC-U 0.01-16
C129	87-018-134-080		CAPACITOR,TC-U 0.01-16
C130	87-010-405-080		CAP, ELECT 10-50V
C131	87-010-405-080		CAP, ELECT 10-50V
C132	87-010-260-080		CAP, ELECT 47-25V
C137	87-010-384-080		CAP, E 100-25 SME
C301	87-010-545-080		CAP, ELECT 0.22-50V
C302	87-018-132-080		CAP, CER 2200P-16V
C303	87-018-148-080		CAP,TC-U 12P-50 CH
C307	87-018-134-080		CAPACITOR,TC-U 0.01-16
C308	87-010-385-080		CAP, ELECT 220-25 M
C309	87-018-147-080		CAP,TC-U 10P-50 CH
C310	87-018-147-080		CAP,TC-U 10P-50 CH
C311	87-018-147-080		CAP,TC-U 10P-50 CH
C312	87-010-404-080		CAP, ELECT 4.7-50V
C313	87-018-119-080		CAP, CER 100P-50V
C314	87-010-401-080		CAP, ELECT 1-50V
C315	87-018-196-080		CAP, CER 1500P-16V
C316	87-010-400-080		CAP, ELECT 0.47-50V
C317	87-010-381-080		CAP, ELECT 330-16 M
C318	87-018-134-080		CAPACITOR,TC-U 0.01-16
C319	87-010-400-080		CAP, ELECT 0.47-50V
C320	87-010-384-080		CAP, ELECT 100-25V
C321	87-018-134-080		CAPACITOR,TC-U 0.01-16
C323	87-018-209-080		CAP, CER 0.1-50V
C324	87-018-209-080		CAP, CER 0.1-50V
C328	87-010-400-080		CAP, ELECT 0.47-50V
C330	87-018-134-080		CAPACITOR,TC-U 0.01-16
C333	87-018-134-080		CAPACITOR,TC-U 0.01-16
C334	87-010-263-080		CAP, ELECT 100-10V
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-018-134-080		CAPACITOR,TC-U 0.01-16
C337	87-010-401-080		CAP, ELECT 1-50V
C338	87-010-401-080		CAP, ELECT 1-50V
C339	87-010-263-080		CAP, ELECT 100-10V
C340	87-018-134-080		CAPACITOR,TC-U 0.01-16
C341	87-018-134-080		CAPACITOR,TC-U 0.01-16
C344	87-010-263-080		CAP, ELECT 100-10V
C501	87-018-195-080		CAP, CER 1200P-16V
C502	87-018-115-080		CAP, CER 47P-50V
C503	87-010-247-080		CAP, ELECT 100-50V
C509	87-010-405-080		CAP, ELECT 10-50V
C511	88-708-980-810		CAP,M 0.056-100 J AMZV
C512	87-A10-011-090		CAP,E 2200-25 SMG
C513	87-018-127-080		CAP, CER 470P-50V
C601	87-A10-406-010		CAP,CER 270P-2K K BN DE
C603	87-A12-023-080		CAP,E 10-250 M SME
C606	87-016-515-080		CAP,CER 1000P-1K B
C607	87-010-397-090		CAP,E 1000-35 SME

	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	C609	87-010-386-080		CAP,E330-25 SME
	C610	87-016-217-080		CAP,E 4.7-160
	C611	87-A11-052-010		CAP,M/P 0.47-250 J B32652
	C612	87-A12-181-010		CAP,E 47-160M SMG
	C613	87-A10-624-090		CAP,M/P 6800P-1.25KJ
	C614	87-A10-865-090		CAP,CER 1500P-2K K R
	C615	87-A10-028-090		CAP,CER 3300P-2K K BN
	C616	87-018-132-080		CAP, CER 2200P-16V
⚠	C617	87-010-976-080		CAP,CER 1000P-500 B
⚠	C618	87-010-974-080		CAP,CER 220P-500 B
⚠	C801	87-A10-688-090		CAP,M/P 0.22-275 K (B81133)
⚠	C802	87-A10-688-090		CAP,M/P 0.22-275 K (B81133)
⚠	C805	87-012-370-010		CAP,CER 3300P-250NS
	C807	87-A10-646-090		CAP,E 220-400 SMH (25.4*40)
	C808	87-A10-684-010		CAP,CER 680P-2K K BN DE
	C809	87-018-131-080		CAP, CER 1000P-50V
	C810	87-010-384-080		CAP, ELECT 100-25V
	C811	87-018-127-080		CAP, CER 470P-50V
	C812	87-018-129-080		CAP, CER 680P-50V
	C813	87-A10-626-090		CAP,M/P 0.01-1250 J
	C815	87-A11-779-090		CAP,M/P 1000P-1.6K J ECWH(VB)
	C816	87-A10-867-090		CAP,CER 2200P-2K K R
	C817	87-A10-731-090		CAP,E 220-160 M KMF
	C818	87-016-221-090		CAP,E 100-160 M TWSS
	C822	87-A10-832-080		CAP,CER 1000P-1K
	C823	87-010-398-090		CAP,E 2200-35V
	C824	87-A12-082-090		CAP,E 1000-35 SMG
	C826	87-010-235-080		CAP,E 470-16 SME
	C827	87-010-405-080		CAP, ELECT 10-50V
	C828	87-010-405-080		CAP, ELECT 10-50V
	C829	87-A10-469-080		CAP,CER 2200P-500 K B DD10
	C830	87-010-405-080		CAP, ELECT 10-50V
	C831	87-010-405-080		CAP, ELECT 10-50V
	C832	87-010-405-080		CAP, ELECT 10-50V
	C833	87-010-405-080		CAP, ELECT 10-50V
	C834	87-010-382-080		CAP, E 22-25 SME
	C835	87-010-384-080		CAP, E 100-25 SME
	C901	87-010-405-080		CAP, ELECT 10-50V
	C902	87-010-401-080		CAP, ELECT 1-50V
	C903	87-010-401-080		CAP, ELECT 1-50V
	C904	87-010-221-080		CAP, ELECT 470-10V
	C905	87-010-405-080		CAP, ELECT 10-50V
	C906	87-010-405-080		CAP, ELECT 10-50V
	C907	87-010-405-080		CAP, ELECT 10-50V
	C908	87-010-401-080		CAP, ELECT 1-50V
	C909	87-010-401-080		CAP, ELECT 1-50V
	C910	87-010-401-080		CAP, ELECT 1-50V
	C911	87-010-401-080		CAP, ELECT 1-50V
	C912	87-010-260-080		CAP, ELECT 47-25 SME
	C913	87-018-134-080		CAPACITOR,TC-U 0.01-16
	C914	87-018-134-080		CAPACITOR,TC-U 0.01-16
	C915	87-018-133-080		CAPACITOR,TC-U 4700P-16
	C916	87-018-133-080		CAPACITOR,TC-U 4700P-16
	CF201	87-A90-224-080		FLTR,TPS6.0MB
	CF202	87-008-578-080		FLTR,TPS6.5MB2
	CF203	84-LB3-626-080		FLTR,TPS4.5MB2
	CF204	87-008-577-080		FLTR,TPS5.5MB2
	CF205	87-008-574-080		FLTR,CER SFSH4.5MCB
	CN1	87-099-407-010		CONN,7P EH V WHT
	CN101	87-A60-734-010		CONN,8P JL-BT
	CN102	87-A60-732-010		CONN,6P JL-BT
	CN601	87-099-675-010		CONN,5P V V
	CN602	87-A60-485-010		CONN,2P V LV GRA
⚠	CN801	87-099-674-010		CONN,2P VA V
⚠	CN802	82-481-649-010		CONN, 2P V VT-50P
	CN901	87-049-469-010		CONN,4P V
	CNA301	84-LB2-631-010		CONN ASSY,5P TN-4
	CNA801	8Z-JB9-663-010		CONN ASSY,8P V AU PW 200
	CNA802	8Z-JB4-658-010		CONN ASSY,5P MAIN-NK 20'/21'
	CNA900	8Z-JBX-602-010		CONN ASSY,4P SP 205-0.5

	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
	CNA901	8Z-JB9-662-010		CONN ASSY,6P V AU L/R 300
	CNA902	8Z-JB4-660-010		CONN ASSY,5P 401-481 AUDIO
	CNA903	8Z-JB9-661-010		CONN ASSY,10P MAIN-AUDIO
	D9	87-A40-422-010		LED,SLP-581D-51 Y-G/R
	D801	87-A90-965-010		VRIS,TNR15G471K
⚠	F801	87-035-458-010		FUSE,4A 250V T W/C
	FB1	87-003-320-080		F-BEAD,FBR07HA121NB
	FB501	87-003-320-080		F-BEAD,FBR07HA121NB
	FB601	87-003-320-080		F-BEAD,FBR07HA121NB
	FB801	87-003-320-080		F-BEAD,FBR07HA121NB
	FB802	87-003-320-080		F-BEAD,FBR07HA121NB
	FB805	87-003-320-080		F-BEAD,FBR07HA121NB
	FB806	87-003-320-080		F-BEAD,FBR07HA121NB
⚠	FC801	87-033-213-080		CLAMP, FUSE PFC5000
⚠	FC802	87-033-213-080		CLAMP, FUSE PFC5000
	FR601	87-A00-063-060		RES, FUSE 2.2-1/2W J
	FR602	87-A00-477-090		RES, FUSE 1.8-1W J
	FR603	87-029-150-090		RES, FUSE 3.9-2W J
	FR604	87-A00-486-090		RES, FUSE 1.5-2W J
	FR606	87-A00-049-060		RES, FUSE 2.2K-1/2W J
	FR803	87-A00-672-090		RES, M/F 68-3W J
	HL9	84-LB3-216-010		HLDR,LED
	J901	87-A60-324-110		JACK,PIN 6P Y-W-R W/SW
	J902	87-A61-021-010		JACK,PIN 3P W/SW YKC21-5734
	J903	87-A60-858-010		JACK,3.5 BLK ST 2 SW
	JW807	87-018-134-080		CAP,TC U 0.01-16 N Y
	L1	87-003-147-080		COIL, 22UH
	L2	87-003-152-080		COIL, 100UH
	L101	87-005-444-080		COIL 100UH,K
	L102	87-003-152-080		COIL, 100UH
	L104	87-003-098-080		COIL,2.2UH K LAL02
	L108	87-003-102-080		COIL,10UH J LAL02
	L109	87-003-282-080		COIL,12UH J LAL02
	L110	87-003-146-080		COIL,15UH J LAL02
	L111	87-003-282-080		COIL,12UH J LAL02
	L112	87-003-149-080		COIL,47UH
	L113	87-003-098-080		COIL,2.2UH K LAL02
	L114	87-A50-530-010		COIL,VCO38.0MHZ
	L301	87-005-444-080		COIL 100UH,K
	L302	87-005-474-080		COIL,12UH J FLR50
	L303	87-005-444-080		COIL 100UH,K
	L601	87-A50-040-010		COIL,2.2MH
	L602	88-JBJ-625-010		COIL,HLC-ELH5L4120N
	L801	87-A50-170-010		COIL,390UH RCH106
⚠	LF801	87-JB8-651-010		FLTR,LINE SS24H-K15070
⚠	PR801	87-A90-090-080		PROTECTOR,1.5A 491SERIES 60V
⚠	PR803	87-A90-094-080		PROTECTOR,4A 491SERIES 60V
⚠	PR804	87-A90-094-080		PROTECTOR,4A 491SERIES 60V
⚠	PS801	87-A91-407-010		P-COUPLER,ON3171-R
⚠	PS802	87-A91-407-010		P-COUPLER,ON3171-R
⚠	PT801	8Z-JBA-621-010		PT,SW ZJB-KE-7 M
	R101	87-A00-164-090		RES,M/F 12K-2W J RSF(S)
	R123	87-010-260-080		CAP,E 47-25 M
	R317	87-A00-308-090		RES,M/F 47-3W J RSF
	R608	87-A00-721-090		RES,M/F 12-7W J
	R612	87-A00-225-090		RES,M/F 2.2K-5W J
	R619	87-A00-200-090		RES,M/F 100-2W J
	R802	87-A00-552-010		RES,CEM 1.0-10W J MPC722
	R803	87-A00-552-010		RES,CEM 1.0-10W J MPC722
	R804	87-A00-543-080		RES,SD 8.2M-1W J RCR60
	R807	87-A00-639-090		RES,CEM 0.15-5W K BPR
	R808	87-A00-573-090		RES,CEM 0.33-5W K BPR
	R816	87-A00-170-090		RES,M/F 82K-3W J RSF(S)
	R817	87-A00-223-090		RES,M/F 47K-2W J RSF(S)
	R827	87-A00-673-090		RES,M/F 82K-5W J RSS5L30
	R830	87-A00-077-090		RES,M/F 8.2-3W J
	R936	87-A00-070-090		RES,M/F 220-1W J
	R937	87-A00-070-090		RES,M/F 220-1W J
	S1	87-A90-712-080		SW,TACT EVQ11L07K
	S2	87-A90-712-080		SW,TACT EVQ11L07K

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S3	87-A90-712-080		SW,TACT EVQ11L07K
S4	87-A90-712-080		SW,TACT EVQ11L07K
S5	87-A90-712-080		SW,TACT EVQ11L07K
S6	87-A90-712-080		SW,TACT EVQ11L07K
S501	87-A90-567-010		SW,LVR 4-1-3 EVQRAAL10
⚠ S801	87-A91-410-010		SW,AC PUSH 1-1-1 ESB92SH1B
SWF201	87-A91-515-010		FLTR,SAW TSB5388P
SWF202	87-A91-556-010		FLTR,SAW TSF6364U
⚠ T601	8Z-JBS-605-010		FBT, HFT3608(SAN)20-C
⚠ T602	84-LB3-651-010		TRANS,HD MS-101N
⚠ THP801	87-A90-759-010		POS-THMS,PTH451C272BF300N270
TU101	87-A91-495-010		TU UNIT, ENV59D58G3-38.0MHZ
X1	87-030-300-080		VIB,XTAL 8.00MHZ
X301	87-A70-054-080		VIB,XTAL 4.43MHZ AQC-1018

AUDIO C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C401	87-010-402-080		CAP, ELECT 2.2-50V
C402	87-010-260-080		CAP, ELECT 47-25V
C403	87-018-134-080		CAPACITOR,TC-U 0.01-16
C405	87-010-402-080		CAP, ELECT 2.2-50V
C406	87-010-405-080		CAP, ELECT 10-50V
C407	87-A11-148-080		CAP,TC U 0.1-50 Z F
C408	87-010-367-080		CAP,E 4.7-25 BP
C411	87-010-367-080		CAP,E 4.7-25 BP
C412	87-010-405-080		CAP, ELECT 10-50V
C413	87-A11-148-080		CAP,TC U 0.1-50 Z F
C414	87-010-405-080		CAP, ELECT 10-50V
C415	87-010-367-080		CAP,E 4.7-25 BP
C418	87-010-367-080		CAP,E 4.7-25 BP
C419	87-A11-148-080		CAP,TC U 0.1-50 Z F
C420	87-010-260-080		CAP, ELECT 47-25V
C421	87-010-260-080		CAP, ELECT 47-25V
C422	87-018-134-080		CAPACITOR,TC-U 0.01-16
C426	87-A11-148-080		CAP,TC U 0.1-50 Z F
C427	87-010-401-080		CAP, ELECT 1-50V
C428	87-018-134-080		CAPACITOR,TC-U 0.01-16
C429	87-010-263-080		CAP, ELECT 100-10V
C433	87-A11-148-080		CAP,TC U 0.1-50 Z F
C434	87-A11-148-080		CAP,TC U 0.1-50 Z F
C435	87-010-260-080		CAP, ELECT 47-25V
C436	87-018-119-080		CAP, CER 100P-50V
C437	87-018-119-080		CAP, CER 100P-50V
C438	87-010-367-080		CAP,E 4.7-25 BP
C440	87-A11-147-080		CAP,TC U 0.047-50 Z F
C442	87-A11-147-080		CAP,TC U 0.047-50 Z F
C445	87-010-367-080		CAP,E 4.7-25 BP
C446	87-010-101-080		CAP, ELECT 220-16
C447	87-A11-148-080		CAP,TC U 0.1-50 Z F
C467	87-010-367-080		CAP,E 4.7-25 BP
C470	87-010-112-080		CAP, ELECT 100-16V
C471	87-A11-148-080		CAP,TC U 0.1-50 Z F
C472	87-010-367-080		CAP,E 4.7-25 BP
C475	87-010-379-080		CAP, ELECT 22-16V
C476	87-010-400-080		CAP, ELECT 0.47-50V
C477	87-010-400-080		CAP, ELECT 0.47-50V
C478	87-010-401-080		CAP, ELECT 1-50V
C479	87-010-247-080		CAP, ELECT 100-50V
C480	87-010-388-080		CAP ELECT 1000-25V SME
C481	87-010-388-080		CAP ELECT 1000-25V SME
C482	87-010-401-080		CAP, ELECT 1-50V
C483	87-010-247-080		CAP, ELECT 100-50V
C484	87-A11-148-080		CAP,TC U 0.1-50 Z F
C493	87-010-112-080		CAP, ELECT 100-16V
C498	87-010-402-080		CAP, ELECT 2.2-50 SME
CN401	87-009-034-010		CONN,6P PH V
CN402	87-009-038-010		CONN,10P V WHT
CN403	87-099-408-010		CONN,8P EH V WHT
CN404	87-009-195-010		CONN,5P B5BEH
FR996	87-A00-084-090		RES,FUSE 1-1W J

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FR997	87-A00-084-090		RES,FUSE 1-1W J
R401	87-025-381-080		RES,M/F 18K-1/6W F
R402	87-025-424-080		RES,M/F 10K 1/6W F
R404	87-025-380-080		RES,M/F 15K-1/6W F
R405	87-025-381-080		RES,M/F 18K-1/6W F

NK C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠ C551	87-010-976-080		CAP,CER 1000P-500 B
⚠ C552	87-012-397-010		CAP,CER 1000P-2K BN
C553	87-018-127-080		CAP,TC-U 470P-50
C554	87-018-127-080		CAP,TC-U 470P-50
C555	87-018-128-080		CAP,TC-U 560P-50 B
C556	87-010-405-080		CAP, ELECT 10-50V
C557	87-010-405-080		CAP, ELECT 10-50V
CN551	87-009-195-010		CONN,5P B5BEH
CN552	87-049-590-010		CONN,5P 8283 V WHT
CN553	87-A61-112-080		CONN,1P V BLU TP00704
CN554	87-A61-060-080		CONN,1P V RED TP00706
L551	87-005-444-080		COIL 100UH,K
R551	87-A00-165-090		RES,M/F 15K-2W J RSF(S)
R552	87-A00-165-090		RES,M/F 15K-2W J RSF(S)
R553	87-A00-165-090		RES,M/F 15K-2W J RSF(S)
SO551	8Z-JB4-670-010		SOCKET,CRT CVT3327 1603

KEY C.B

JOINT.F C.B

JOINT.R C.B

NICAM C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C701	87-010-318-080		C-CAP,S 47P-50 CH
C702	87-010-318-080		C-CAP,S 47P-50 CH
C703	87-010-145-080		C-CAP,S 1P-50 CH
C704	87-010-145-080		C-CAP,S 1P-50 CH
C705	87-010-553-080		CAP,E 47-16
C706	87-010-197-080		CAP, CHIP 0.01 DM
C707	87-010-197-080		CAP, CHIP 0.01 DM
C708	87-010-496-080		CAP,E 3.3-50 5L
C709	87-010-197-080		CAP, CHIP 0.01 DM
C710	87-010-197-080		CAP, CHIP 0.01 DM
C714	87-010-555-080		CAP,E 100-10 GAS
C715	87-010-197-080		CAP, CHIP 0.01 DM
C716	87-010-316-080		C-CAP,S 33P-50 CH
C719	87-010-498-080		CAP,E 10-16 GAS
C720	87-012-157-080		C-CAP,S 330P-50 CH
C723	87-010-498-080		CAP,E 10-16 GAS
C724	87-010-494-080		CAP ELECT GAS 1/50
C725	87-010-197-080		CAP, CHIP 0.01 DM
C726	87-010-197-080		CAP, CHIP 0.01 DM
C727	87-010-497-080		CAP,E 4.7-35 5L
C728	87-010-197-080		CAP, CHIP 0.01 DM
C729	87-010-555-080		CAP,E 100-10 GAS
C730	87-010-321-080		CHIP CAPACITOR,82P(J)
C731	87-012-140-080		CAP 470P
C732	87-010-189-080		C-CAP,S 8200P-50 B
C733	87-010-183-080		C-CAP,S 2700P-50 B
C734	87-012-142-080		CAP, S 0.33-16
C737	87-010-552-080		CAP,E 22-16 GAS
C739	87-012-157-080		C-CAP,S 330P-50 CH
C740	87-010-318-080		C-CAP,S 47P-50 CH
C741	87-012-140-080		CAP 470P
C742	87-010-189-080		C-CAP,S 8200P-50 B
C743	87-010-183-080		C-CAP,S 2700P-50 B
C744	87-012-142-080		CAP, S 0.33-16
C745	87-012-157-080		C-CAP,S 330P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C748	87-012-154-080		C-CAP,S 150P-50 CH
CN701	87-A60-722-010		CONN,8P JL-R
CN702	87-A60-720-010		CONN,6P JL-R
L701	87-005-461-080		COIL,1UH J FLR50
L702	87-005-461-080		COIL,1UH J FLR50
L703	87-005-473-080		COIL,10UH J FLR50
L705	87-005-473-080		COIL,10UH J FLR50
L707	87-005-473-080		COIL,10UH J FLR50
L708	87-005-485-080		COIL,100UH J FLR50
X701	87-A70-199-080		VIB,XTAL 18.432MHZKEY C.B

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

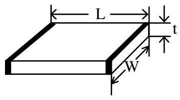
8 8 – □ □ □ □ □ □

A
抵抗部品コード
Resistor Code

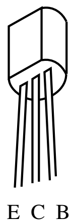
桁表示
Figure

抵抗値
Value of resistor

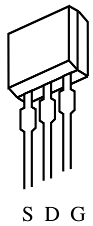
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

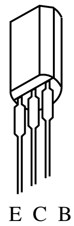
TRANSISTOR ILLUSTRATION



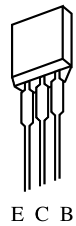
2SA950Y
2SA1015GR



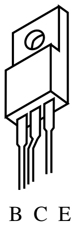
2SJ460
2SK2541



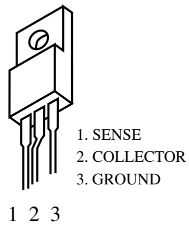
2SC3467D/E



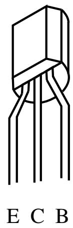
2SA1175FE
2SC2785FE
DTC144ES



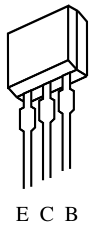
2SD2333LS



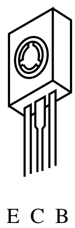
SE115N



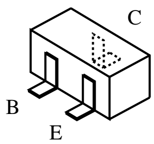
2SC3779D/E



DTC323TS



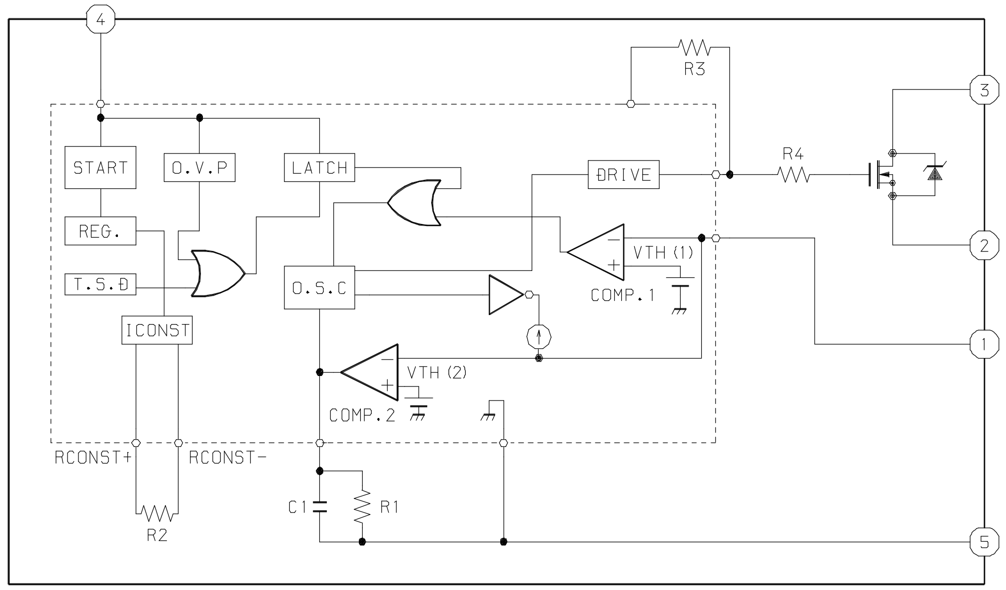
2SC2688M/L



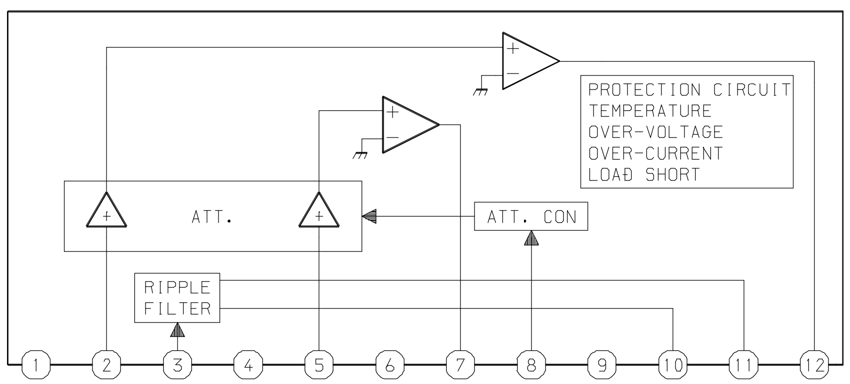
2SC2412KR

IC BLOCK DIAGRAM

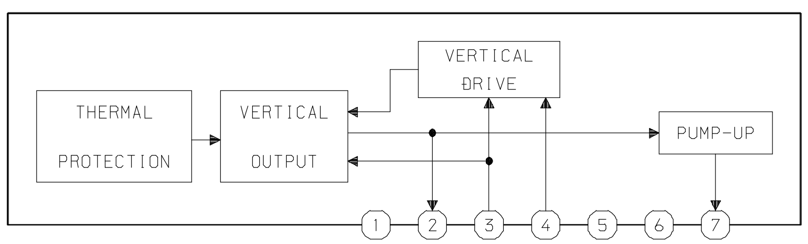
IC, STR-F6656



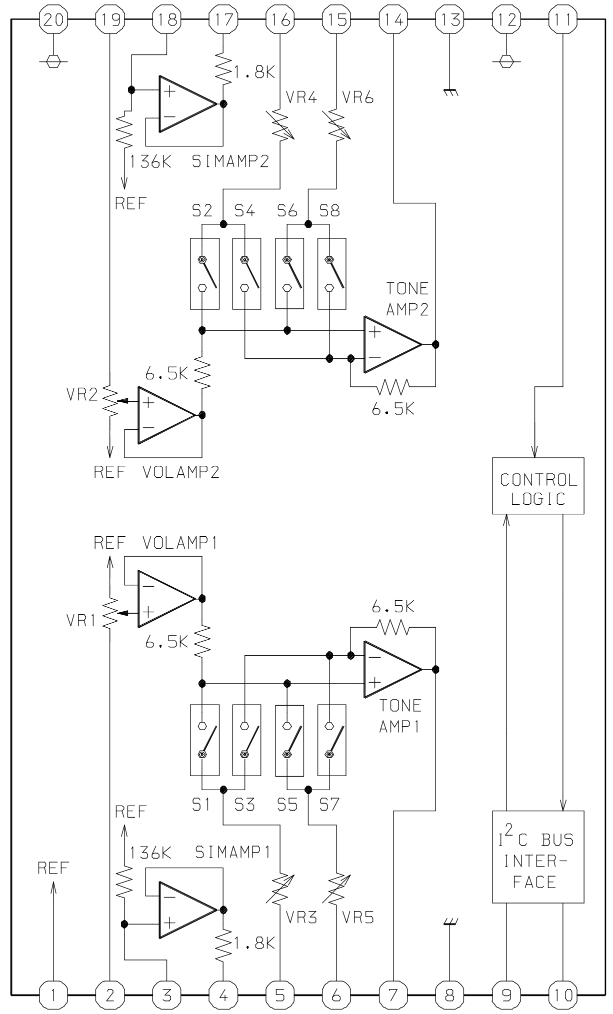
IC, AN5277



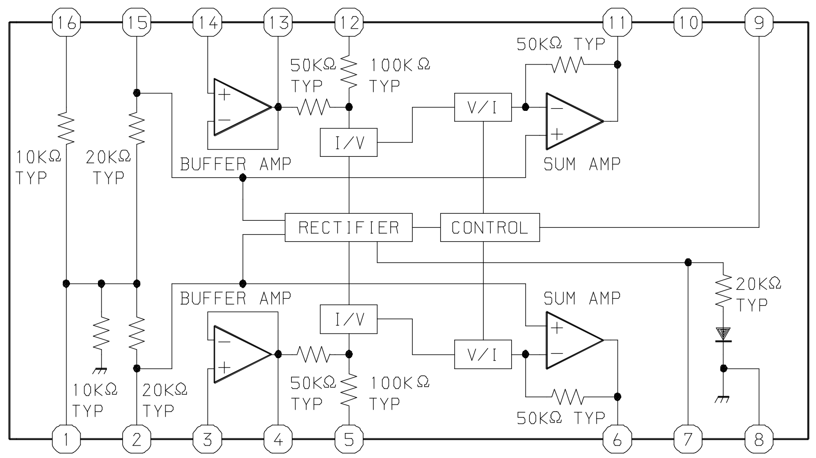
IC, LA7832



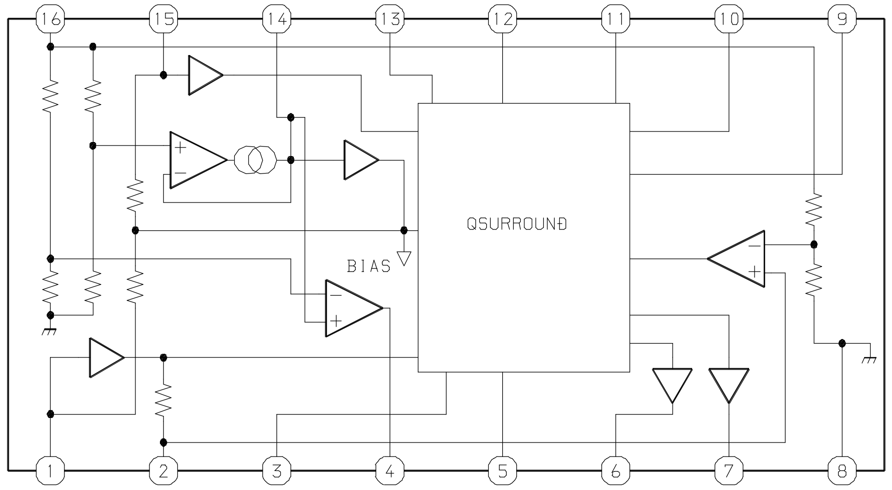
IC, M62420SP



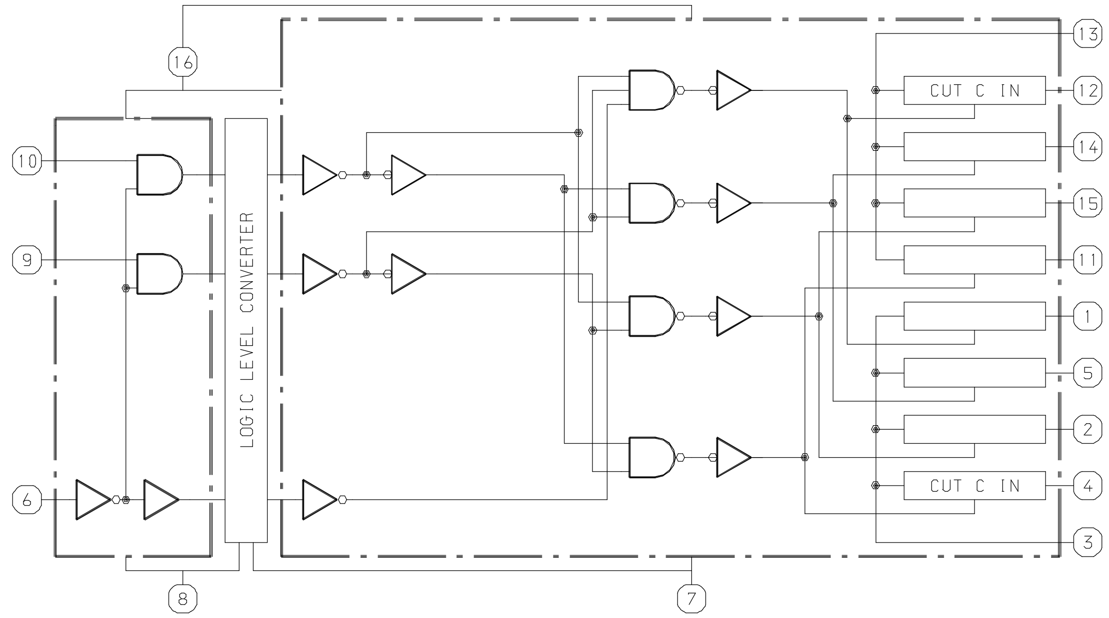
IC, MM1124B



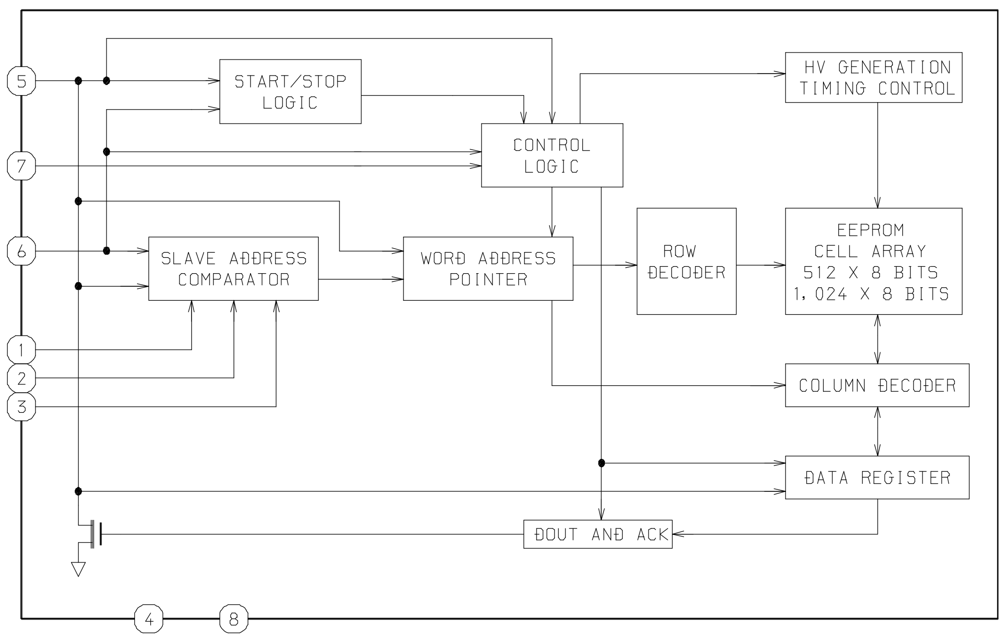
IC, MM1454XD



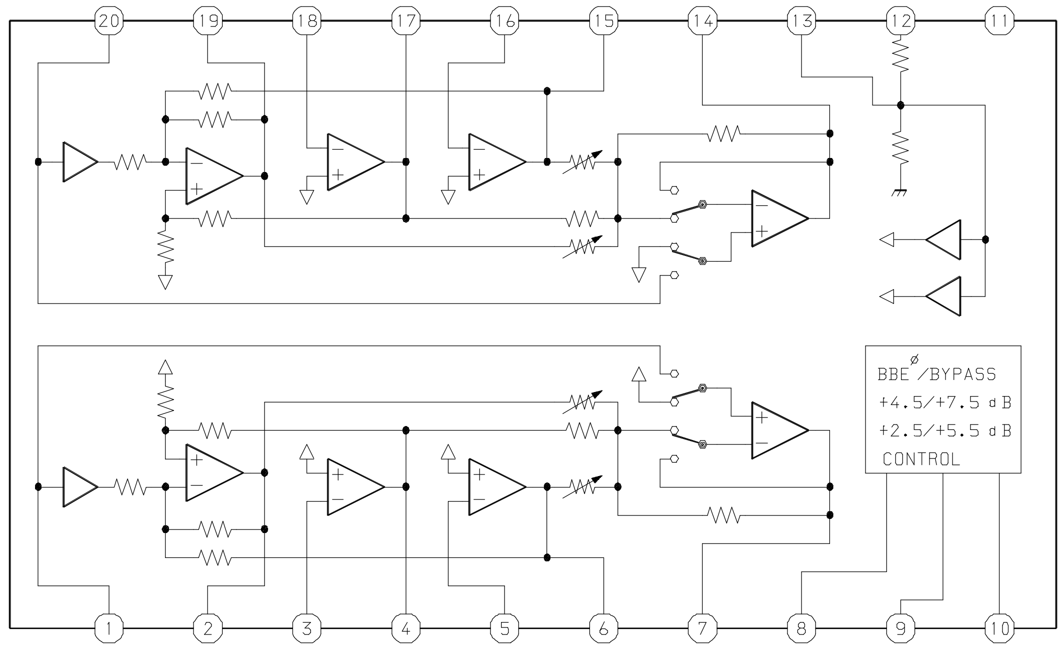
IC, TC4052BP

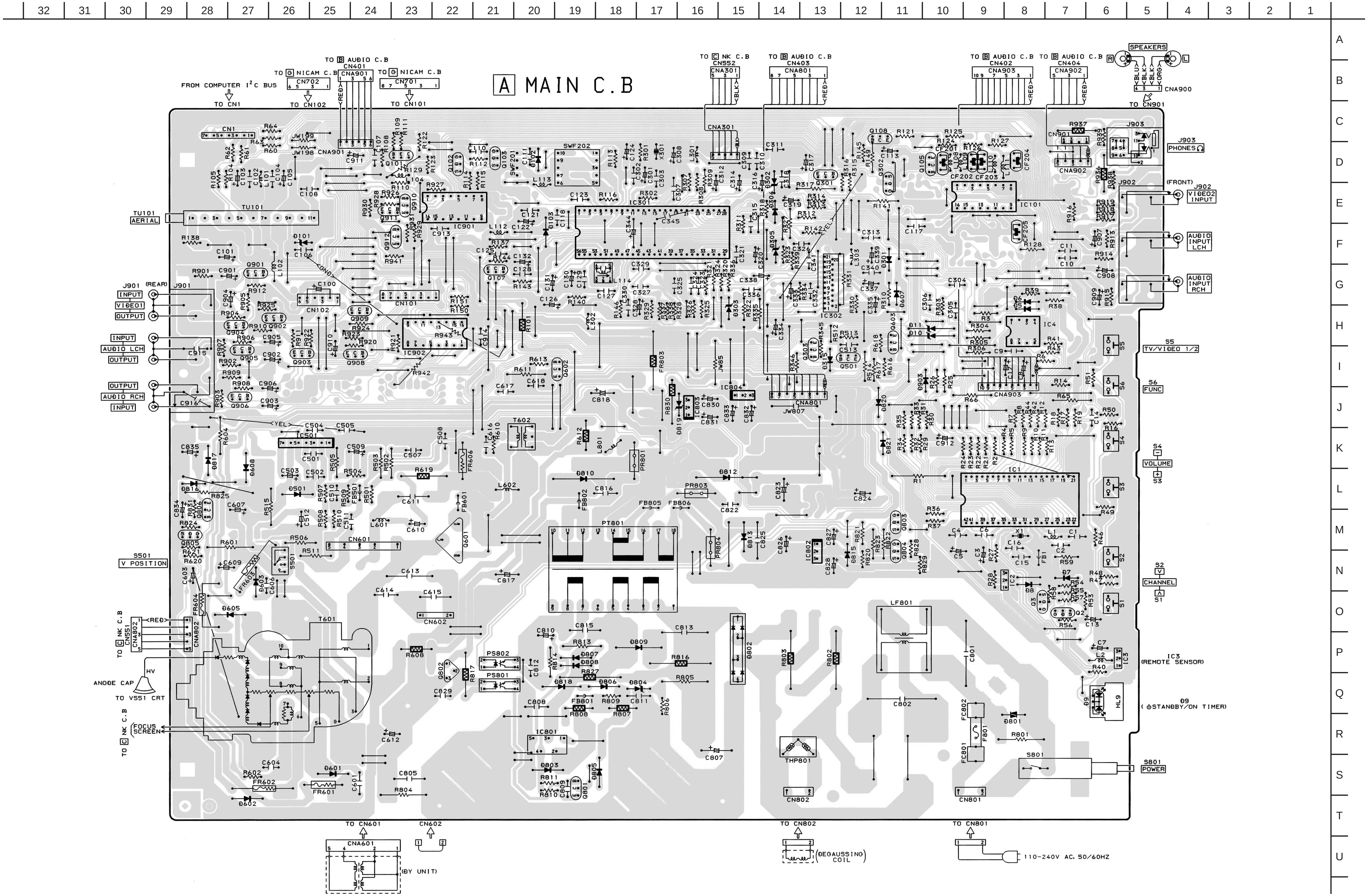


IC, KS24C041I

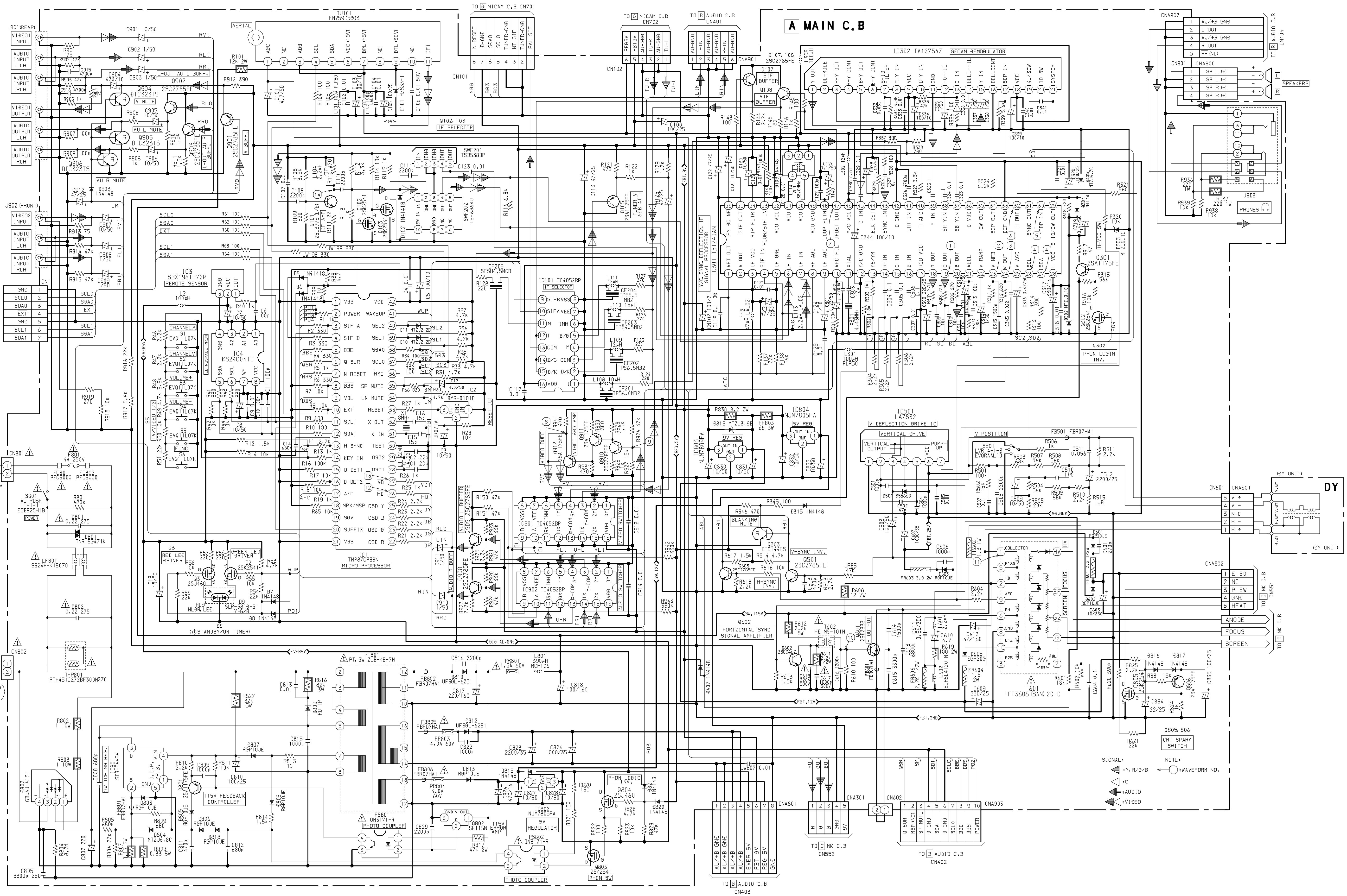


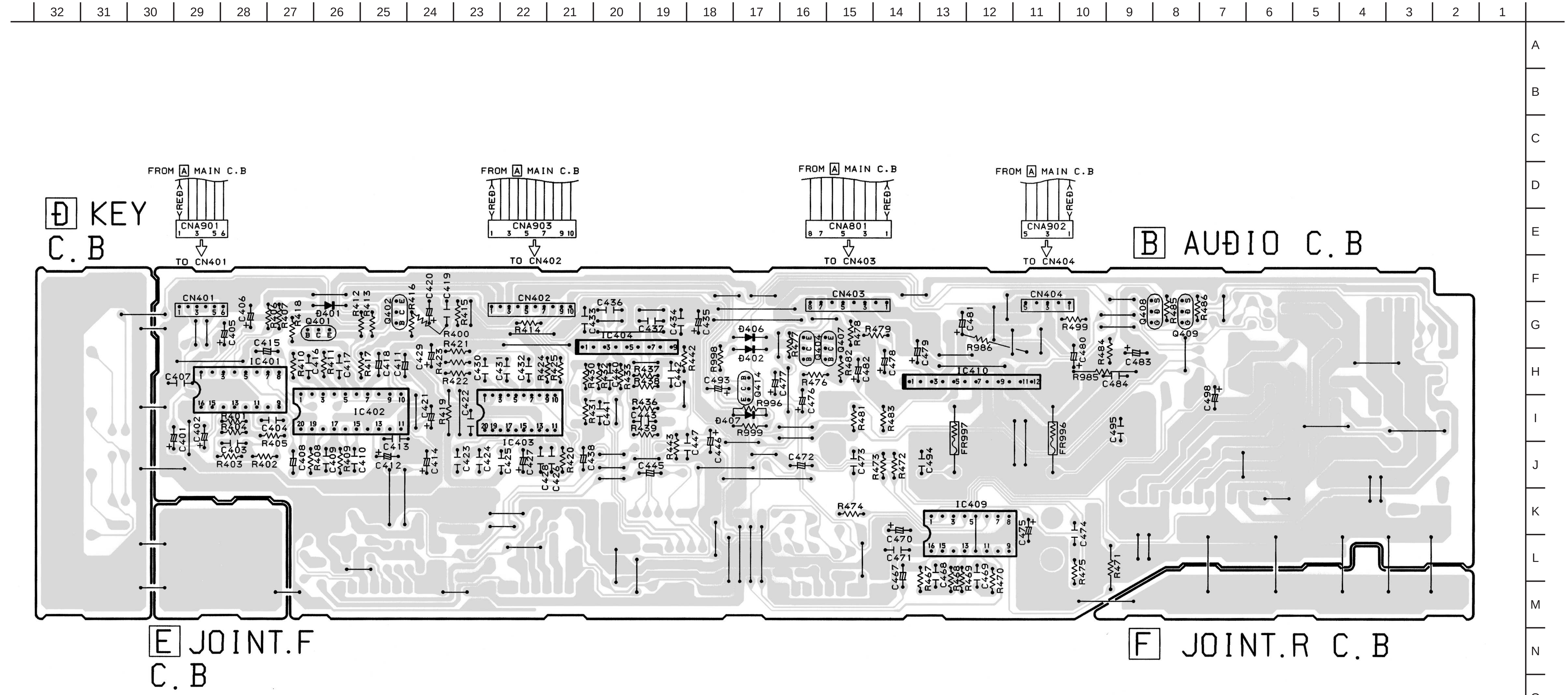
IC, NJM2150



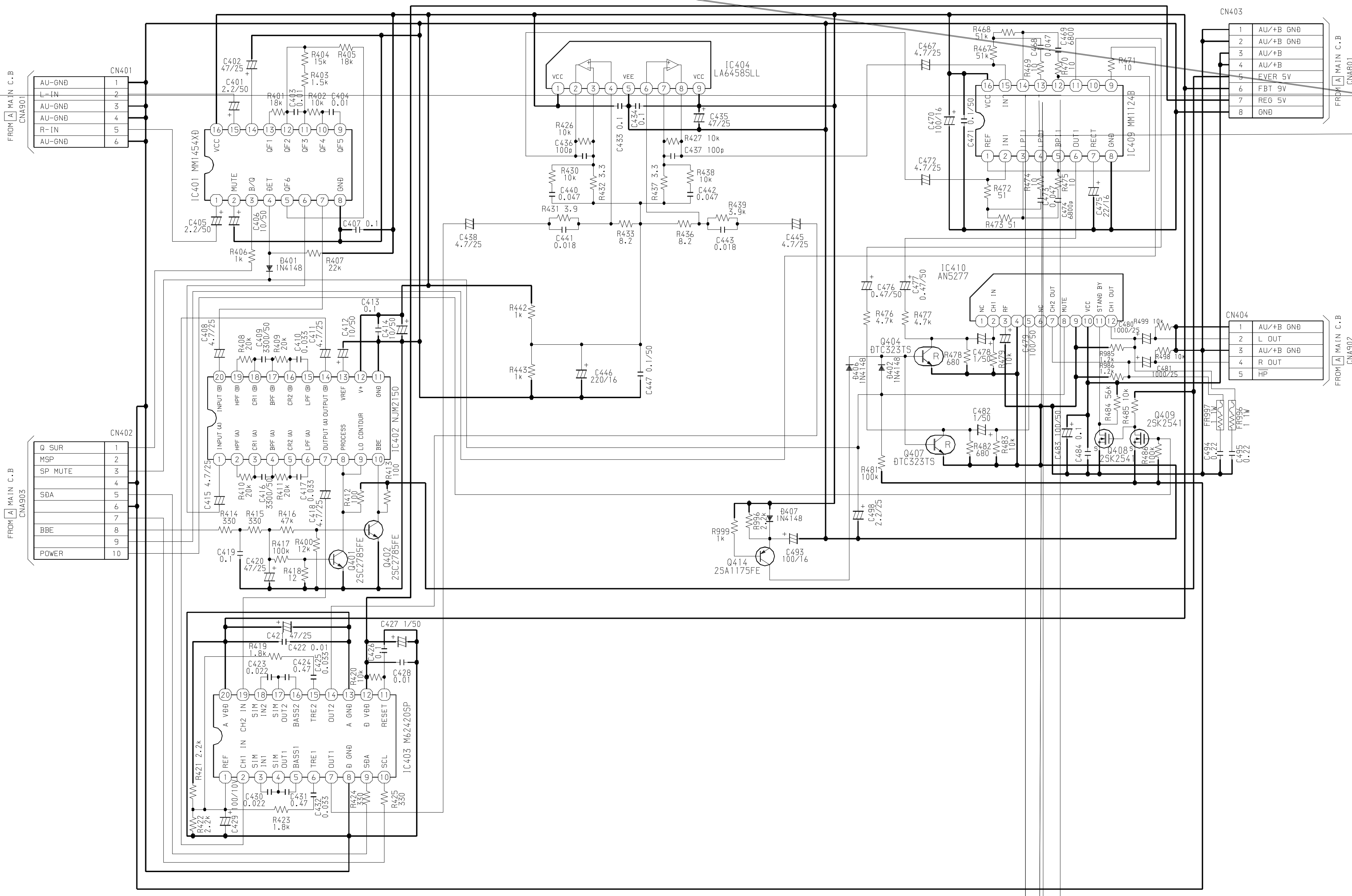

A MAIN C.B
TO B AUDIO C.B
TO G NICAM C.B
TO C NK C.B
FROM COMPUTER I2C BUS
TO CN1
TO CN102
TO CN101
TO CN901
SPEAKERS
J903 PHONES
J902 (FRONT) VIDEO2 INPUT
AUDIO INPUT LCH
AUDIO INPUT RCH
TU101 AERIAL
J901 (REAR)
INPUT VIDEO1 OUTPUT
INPUT AUDIO LCH OUTPUT
OUTPUT AUDIO RCH INPUT
S5 TV/VIDEO 1/2
S6 FUNC
S4 VOLUME S3
S2 CHANNEL S1
IC3 (REMOTE SENSOR)
D9 (STANDBY/ON TIMER)
S801 POWER
S501 V POSITION
ANODE CAP
TO V551 CRT
FOCUS SCREEN
TO CN601
TO CN602
(DY UNIT)
TO CN802
(DEGAUSSING COIL)
TO CN801
110-240V AC, 50/60HZ

SCHEMATIC DIAGRAM - 1 (MAIN)

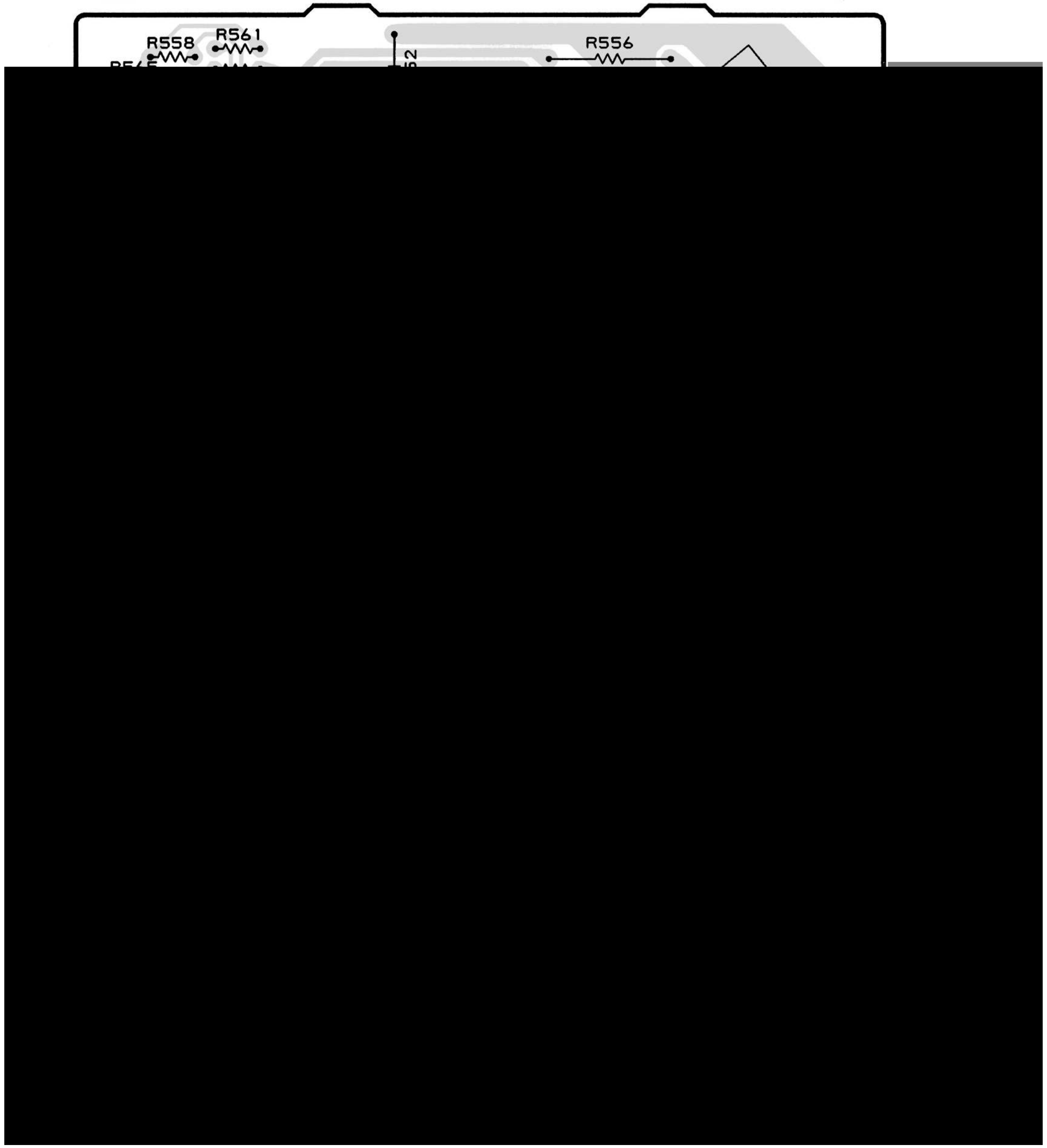



D KEY C.B
B AUDIO C.B
E JOINT.F C.B
F JOINT.R C.B
FROM A MAIN C.B
CNA901
TO CN401
CNA903
TO CN402
CNA801
TO CN403
CNA902
TO CN404
CN401
CN402
CN403
CN404
IC401
IC402
IC403
IC404
IC409
IC410

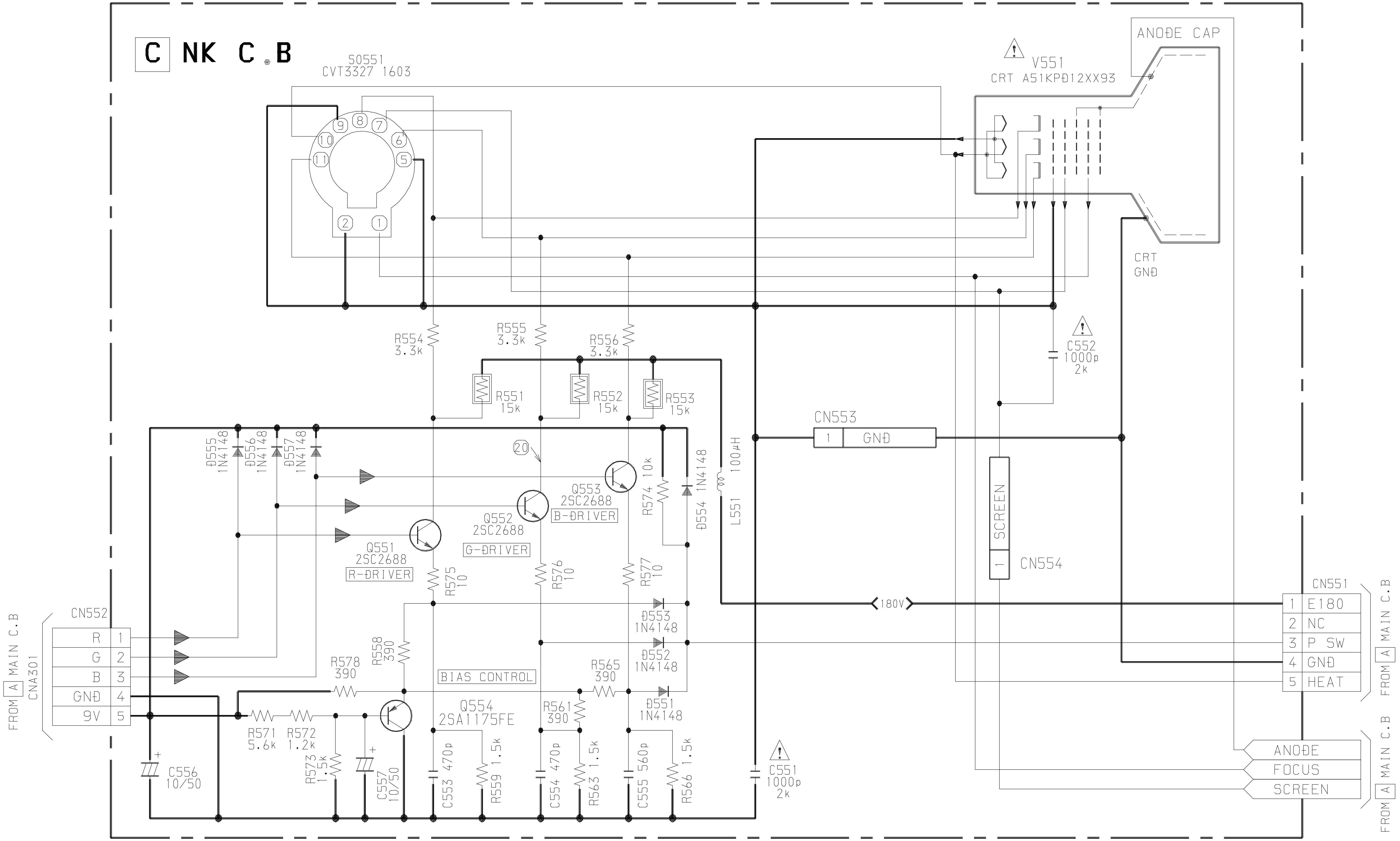
SCHEMATIC DIAGRAM - 2 (AUDIO)



C NK C.B



[redacted]

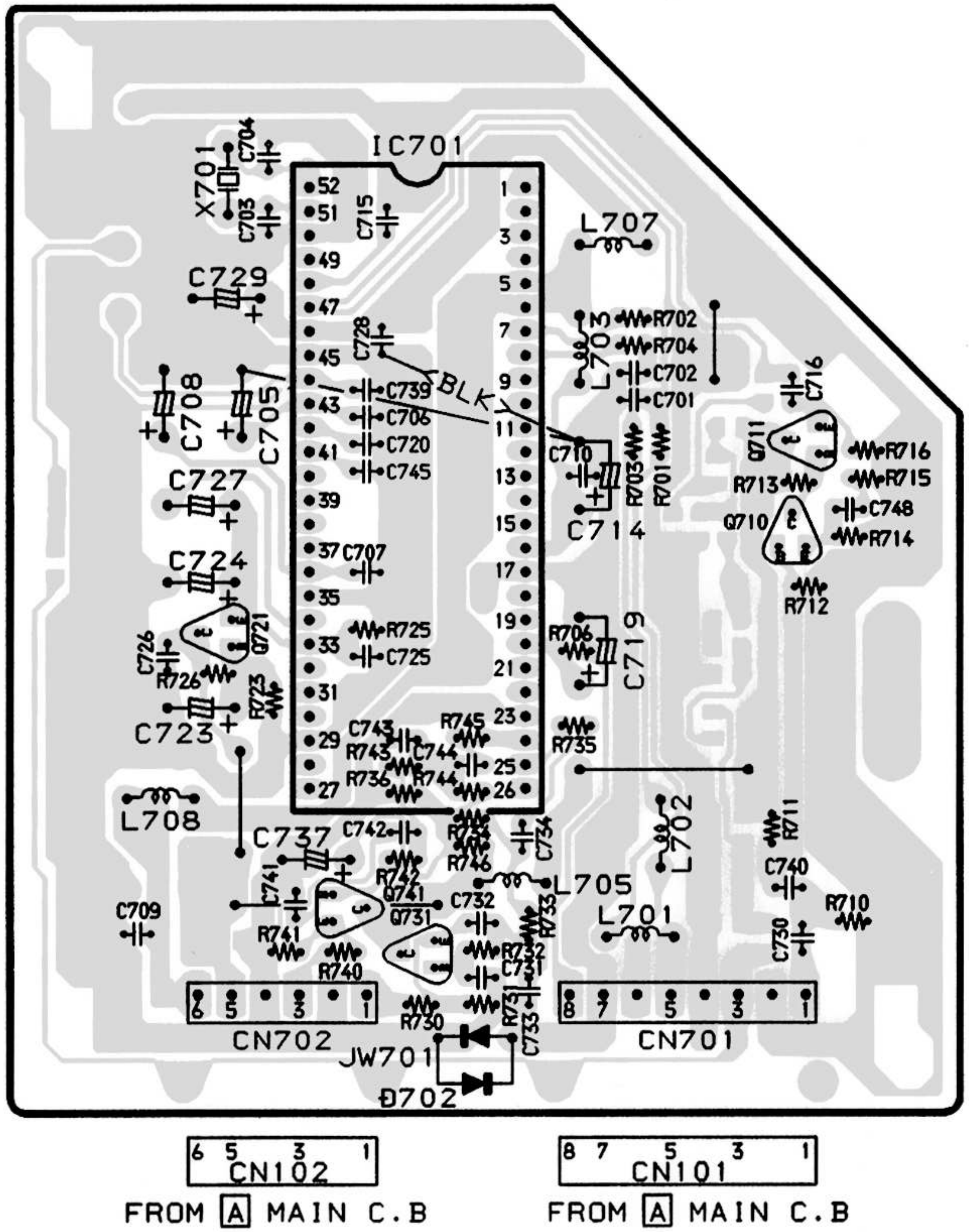


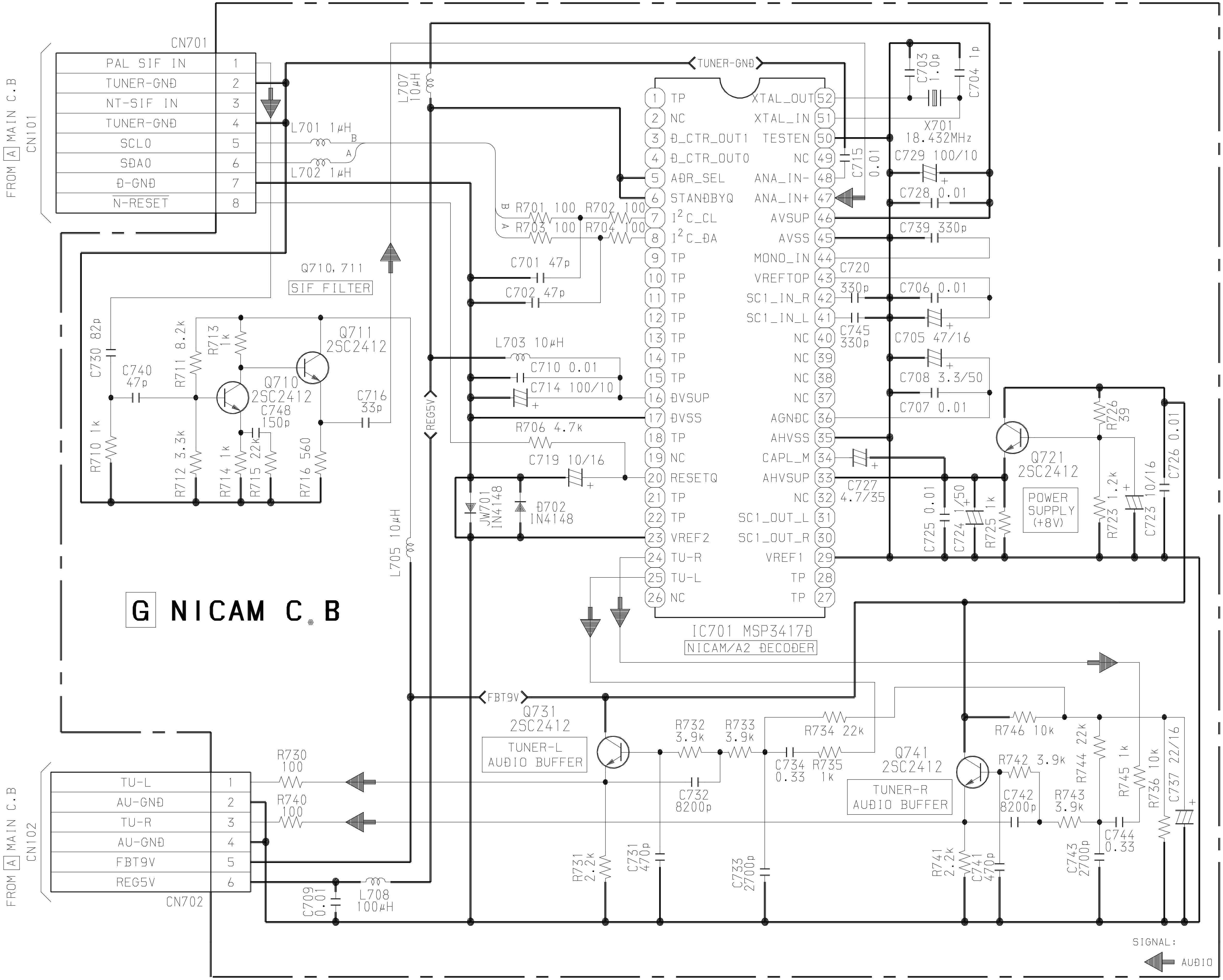
SIGNAL:
◀ :R, G, B OUTPUT
NOTE:
←◯ :WAVEFORM NO.

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

G NICAM C.B



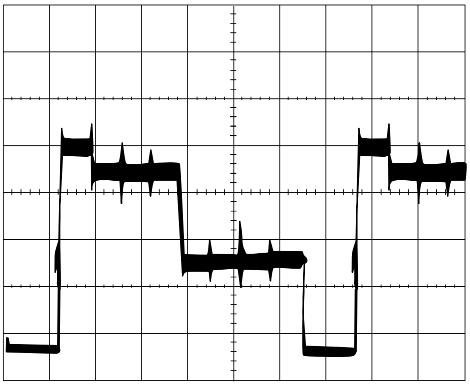

CN701
PAL SIF IN
TUNER-GND
NT-SIF IN
TUNER-GND
SCL0
SDA0
D-GND
N-RESET
FROM A MAIN C.B CN101
TUNER-GND
L701 1µH
L702 1µH
L707 10µH
Q710, 711
SIF FILTER
Q711 2SC2412
Q710 2SC2412
C730 82p
C740 47p
R711 8.2k
R713 1k
C748 150p
C716 33p
R710 1k
R712 3.3k
R714 1k
R715 22k
R716 560
R701 100
R702 100
R703 100
R704 100
C701 47p
C702 47p
L703 10µH
C710 0.01
C714 100/10
R706 4.7k
C719 10/16
JW701 IN4148
D702 IN4148
REG5V
L705 10µH
G NICAM C.B
TP
NC
D_CTR_OUT1
D_CTR_OUT0
ADR_SEL
STANDBYQ
I²C_CL
I²C_DA
DVSUP
DVSS
RESETQ
VREF2
TU-R
TU-L
XTAL_OUT
XTAL_IN
TESTEN
ANA_IN-
ANA_IN+
AVSUP
AVSS
MONO_IN
VREFTOP
SC1_IN_R
SC1_IN_L
AGNDC
AHVSS
CAPL_M
AHVSUP
SC1_OUT_L
SC1_OUT_R
VREF1
IC701 MSP3417D
NICAM/A2 DECODER
C703 1.0p
C704 1p
X701 18.432MHz
C715 0.01
C729 100/10
C728 0.01
C739 330p
C720 330p
C706 0.01
C745 330p
C705 47/16
C708 3.3/50
C707 0.01
C727 4.7/35
C725 0.01
C724 1/50
R725 1k
Q721 2SC2412
POWER SUPPLY (+8V)
R726 39
R723 1.2k
C723 10/16
C726 0.01
FBT9V
Q731 2SC2412
TUNER-L AUDIO BUFFER
R732 3.9k
R733 3.9k
R734 22k
C734 0.33
R735 1k
C732 8200p
R730 100
R740 100
R731 2.2k
C731 470p
C733 2700p
Q741 2SC2412
TUNER-R AUDIO BUFFER
R746 10k
R742 3.9k
R744 22k
R745 1k
R736 10k
C737 22/16
C742 8200p
R743 3.9k
C744 0.33
C743 2700p
R741 2.2k
C741 470p
TU-L
AU-GND
TU-R
AU-GND
FBT9V
REG5V
CN702
FROM A MAIN C.B CN102
C709 0.01
L708 100µH
SIGNAL:
AUDIO

WAVEFORM

AC : 220V INPUT : TUNER PAL-COLOR BAR AUDIO 1kHz USER CONTROL : ALL RESET

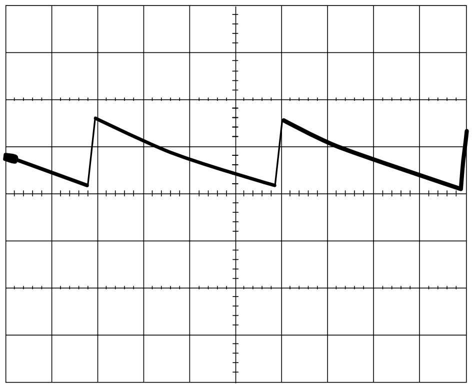
MAIN C.B

① IC301 PIN 19 (GOUT)

①


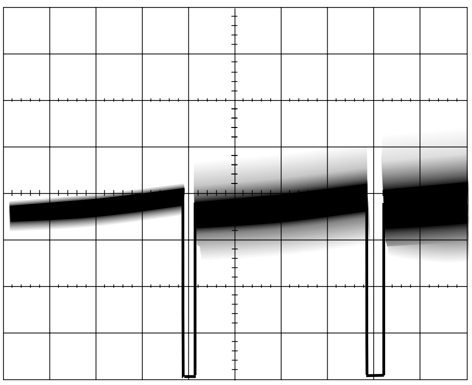
1 V/div
10 µs/div

② IC301 PIN 23 (V NFB)

②


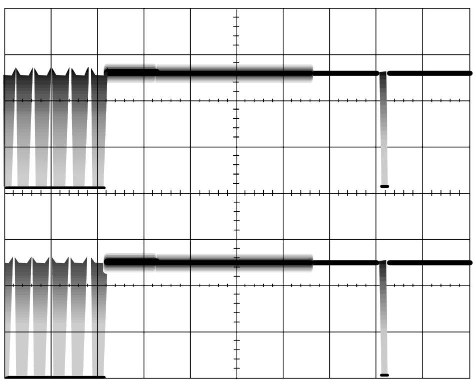
1 V/div
5 ms/div

③ IC301 PIN 24 (VOUT)

③


0.2 V/div
5 ms/div

④ IC301 PIN 26/27 (SCL/SDA)

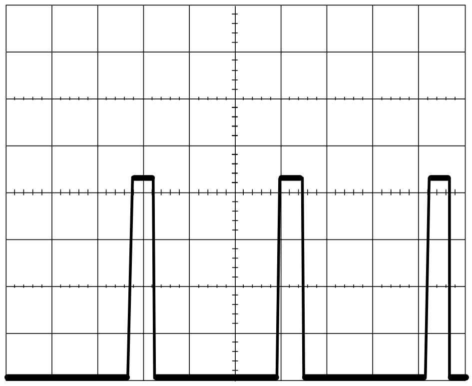
④


Pin 26

Pin 27

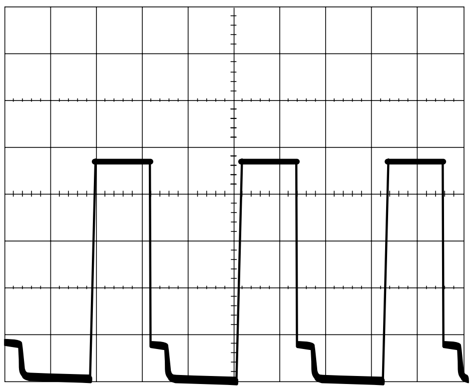
2 V/div
5 ms/div

⑤ IC301 PIN 30 (FBP IN)

⑤


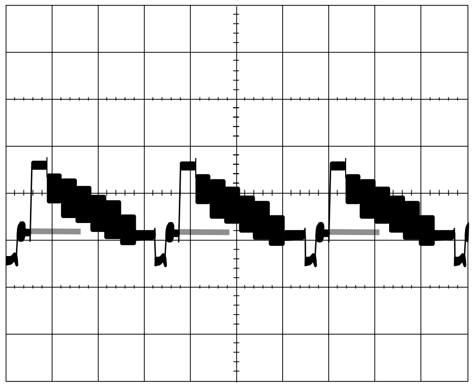
2 V/div
20 µs/div

⑥ IC301 PIN 32 (H OUT)

⑥


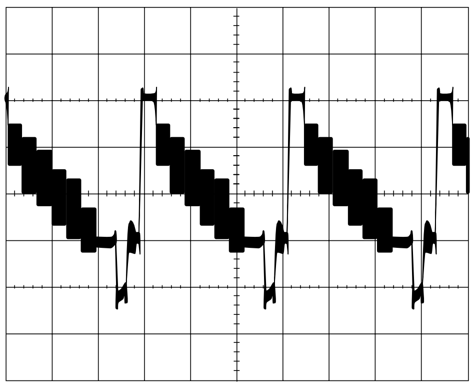
1 V/div
20 µs/div

⑦ IC301 PIN 47 (IF DET OUT)

⑦


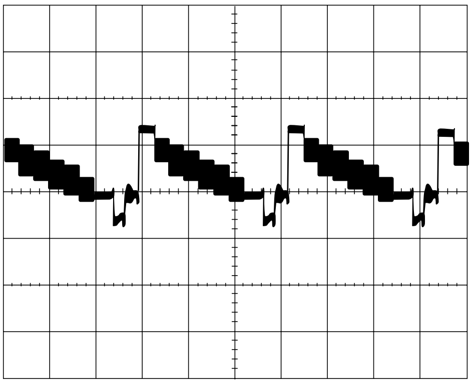
1 V/div
20 µs/div

⑧ Q912 EMITTER

⑧


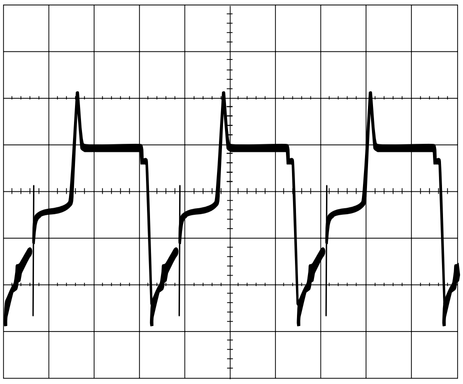
0.5 V/div
20 µs/div

⑨ Q910 BASE



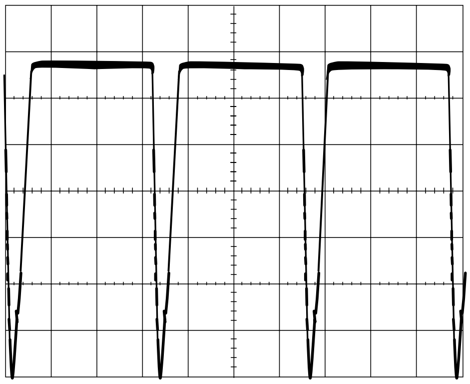
0.5 V/div
20 µs/div

⑩ Q601 BASE



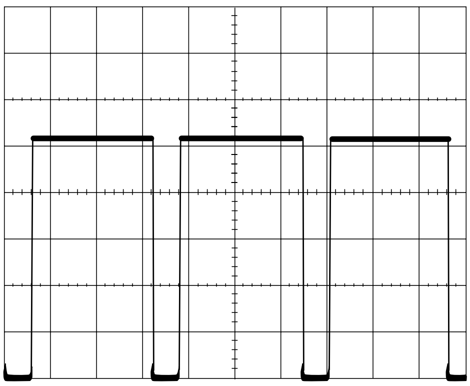
1 V/div
20 µs/div

⑪ T601 PIN 1 (COLLECTOR)



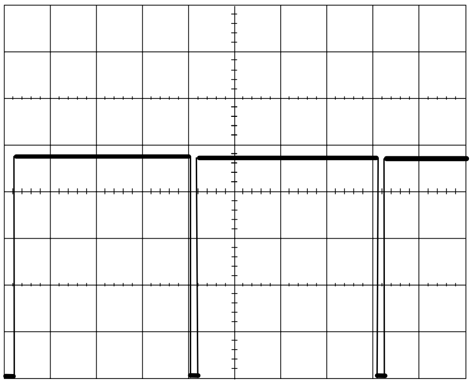
20 V/div
20 µs/div

⑫ IC1 PIN 26 ($\overline{HD}$)



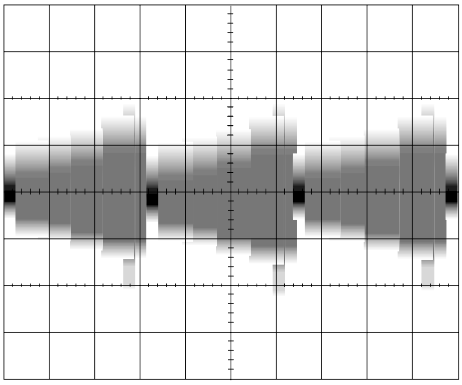
1V/div
20 µs/div

⑬ IC1 PIN27 ($\overline{VD}$)



1 V/div
5 ms/div

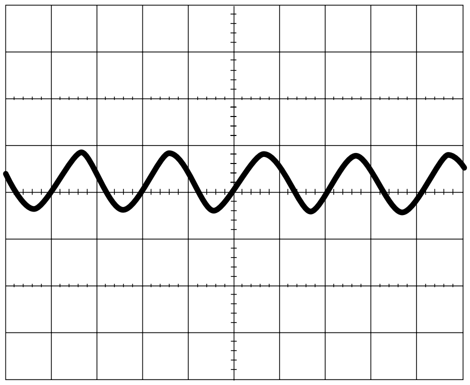
⑭ Q101 COLLECTOR



0.1 V/div
20 µs/div

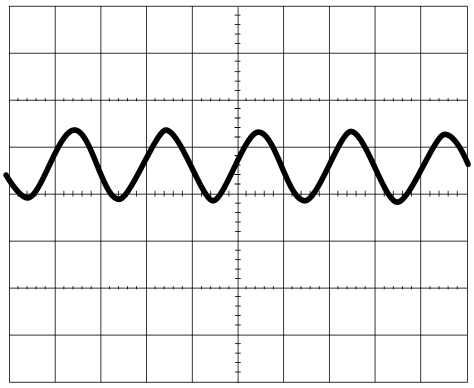
AUDIO C.B

⑮ IC401 PIN 1 (RIN)



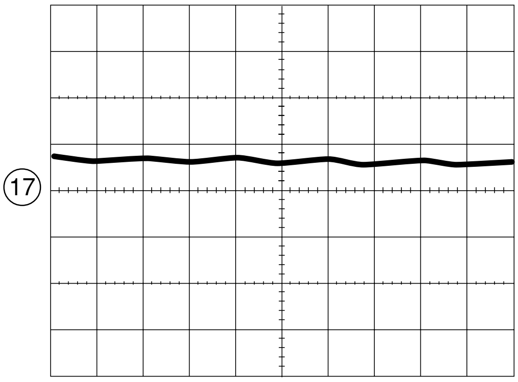
1 V/div
500 µs/div

⑯ IC402 PIN 7 (OUTPUT (A))



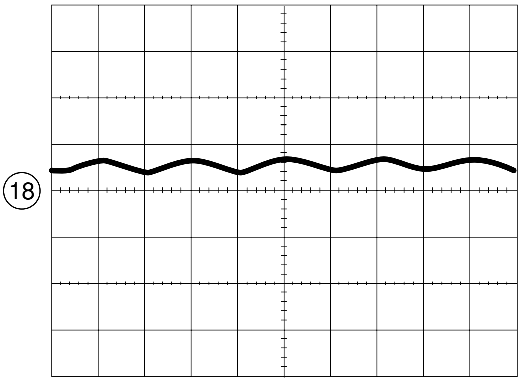
1 V/div
500 µs/div

(17) IC403 PIN 14 (OUT2)



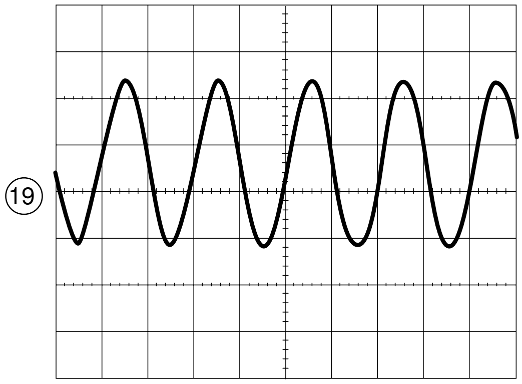
1 V/div
500 µs/div

(18) IC409 PIN 15 (IN2)



1 V/div
500 µs/div

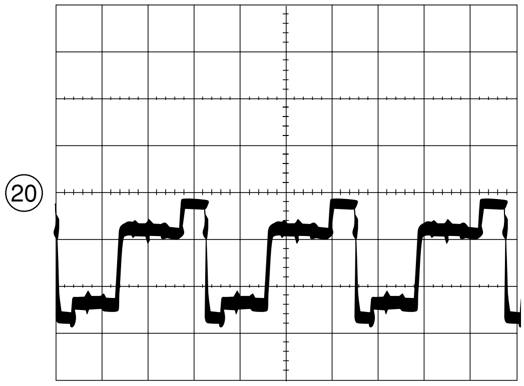
(19) IC410 PIN 7 (CH2 OUT)



2 V/div
500 µs/div

NK C.B

(20) Q552 COLLECTOR



50 V/div
20 µs/div

IC DESCRIPTION

IC, TMP87CP38N

Pin No.	Pin Name	I/O	Description
1	VSS	–	Connected to GND.
2	POWER	O	During standby mode, "H" level is inserted to switch off H deflection & high voltage.
3	SIF A	O	SOUND IF switch A.
4	SIF B	O	SOUND IF switch B.
5	BBE	O	BBE select.
6	Q SUR	O	Q SURROUND switch.
7	$\overline{\text{N RESET}}$	O	NICAM RESET ("L" = reset).
8	$\overline{\text{BBS}}$	O	BASS BOOST / S-WOOFER.
9	VOL	–	Not used.
10	$\overline{\text{EXT}}$	I	External bus switch.
11	SCL1	O	I^{2}C bus CH1 clock.
12	SDA1	I/O	I^{2}C bus CH1 data.
13	H SYNC	I	Sync signal input pin for detection.
14	KEY IN	I	Input key is detected by monitor.
15	D DET1	I	Power condition 1 (mid = good, low/high = bad).
16	D DET2	I	Power condition 2 (mid = good, low/high = bad).
17	AFC	I	AFT voltage input pin.
18	MPX/MSP	I	MPX detect / MSP key in. (Connected to VDD through a resistor)
19	SGV	O	Test signal output when test mode. (Not used)
20	SUFFIX	I	Feature select (initial) input.
21	VSS	–	Connected to GND.
22	OSD R	O	OSD red output.
23	OSD G	O	OSD green output.
24	OSD B	O	OSD blue output.
25	OSD Y	O	OSD blanking signal output.
26	$\overline{\text{HD}}$	I	OSD horizontal synchronised signal input.
27	$\overline{\text{VD}}$	I	OSD vertical synchronised signal input.
28	OSC1	–	Connected to OSC coil.
29	OSC2	–	Connected to OSCcoil.
30	TEST	–	Connected to GND.
31	X IN	I	8 MHz clock input.
32	X OUT	O	8 MHz clock output.
33	$\overline{\text{RESET}}$	I	Use to reset the micon when power up.
34	LN MUTE	O	"H" to mute the line out signal.
35	SP MUTE	O	"H" to mute the audio signal.
36	$\overline{\text{RMC}}$	I	Remote control signal is led to this pin.
37	SCL0	I	I^{2}C bus CH2 clock.
38	SDA0	I/O	I^{2}C bus CH2 data.
39	SEL1	O	Input select switch 1.
40	SEL2	O	Input select switch 2.
41	WAKEUP	O	LED (wakeup timer).
42	VDD	–	5V supply.

IC, TB1240AN

Pin No.	Pin Name	I/O	Description
1	AFT OUT	O	The terminal for AFT output and self-adjust output.
2	A OUT	O	Audio output pin. (Not used)
3	IF VCC	–	VCC of PIF circuit.
4	SIF IN	I	SIF input pin.
5	IF GND	–	GND of PIF circuit.
6	IF IN	I	IF signal input.
7	IF IN	I	IF signal input.
8	RF AGC	O	RF AGC output.
9	IF AGC	–	The terminal to be connected with an IF AGC filter.
10	APC FIL	–	APC filter of chroma for demodulation.
11	XTAL	I	4.43MHz crystal oscillator.
12	Y/C GND	–	GND of Y/C circuit.
13	YS/YM	I	The terminal for switching of analog RGB mode and fast half tone.
14	R-IN	I	Analog red signals input.
15	G-IN	I	Analog green signals input.
16	B-IN	I	Analog blue signals input.
17	RGB VCC	–	VCC of RGB circuit.
18	R OUT	O	R signals output.
19	G OUT	O	G signals output.
20	B OUT	O	B signals output.
21	ABCL	I	ABL/ACL control.
22	V RAMP	–	Connected with cap to make Vertical RAMP signal.
23	V NFB	I	Input of Vertical sawteeth signal feedback.
24	V OUT	O	Vertical drive signal output.
25	V AGC	–	Vertical AGC cap.
26	SCL	I	I^2C bus clock input.
27	SDA	I/O	I^2C bus data input/output.
28	H VCC	–	VCC of vertical circuit.
29	S-ID/CW OUT	I/O	SECAM ID input and PAL/NTSC ID output.
30	FBP IN	I	FBP input.
31	SYNC OUT	O	Composites sync output.
32	H OUT	O	Horizontal drive signal output.
33	DEF GND	–	GND of deflection circuit.
34	SCP OUT	O	Sand castle pulse (VD+HD+GP) output.
35	EW OUT	O	E-W output. (Not used)
36	D VDD	–	VDD of digital block.
37	SB YIN	I	B-Y signals input.
38	SR YIN	I	R-Y signals input.
39	Y IN	I	Y signal input.
40	H AFC	–	H.AFC filter.
41	EHT IN	I	The terminal for EHT. (Not used)
42	D GND	–	GND of digital block.

Pin No.	Pin Name	I/O	Description
43	SYNC IN	I	Input of the synchronous separation circuit.
44	BLK DET	–	The terminal to be connected with an Black Det filter.
45	C IN	I	Input of chroma signals.
46	Y/C VCC	–	VCC of Y/C circuit.
47	IFDET OUT	O	Composite video signal and SIF signal detected in IF circuit.
48	LOOP FLTR	–	Loop filter for IF PLL.
49	VCO GND	–	GND of VCO and SIF circuit.
50	VCO	–	The terminal connected with a tank coil for IF VCO.
51	VCO	–	The terminal connected with a tank coil for IF VCO.
52	VCO VCC	–	VCC of IF VCO and SIF.
53	HCOR/SIF IN	I	H.curve correction and SIF input.
54	RIP FLTR	–	Connected with cap to stabilize the performance of SIF injection-lock circuit.
55	SIF OUT	O	Output of 2nd SIF signal. (Not used)
56	FM DC NF	I	The terminal for FM DC negative feedback and AGC filter for L-SECAM.

IC, TA1275AZ

Pin No.	Pin Name	I/O	Description
1	Y OUT	O	The output pin for Y signal.
2	DL-MODE	O	The pin for controlling the Y processing mode: to VCC: 5.5MHz trap ; open: 5.5MHz trap + D.L ; to GND: DL. (Not used)
3	R-Y OUT	O	The output pin for demodulated R-Y signal.
4	R-Y CONT	I	The pin for controlling the black offset level. (Not used)
5	B-Y OUT	O	The output pin for demodulated B-Y signal.
6	B-Y CONT	I	The pin for controlling the black offset level. (Not used)
7	S-ID FILTER	I	The pin for connecting the SECAM ident filter capacitor.
8	R-Y IN	I	The input pin for external R-Y signal. (Not used)
9	VCC	–	The VCC pin for Y/C processing block.
10	B-Y IN	I	The input pin for external B-Y signal. (Not used)
11	GND	–	The GND pin.
12	F0-FIL	I	The pin for connecting a capacitor for automatic adjusting circuit.
13	C IN	I	The chroma signal input pin.
14	BELL-FIL	I	The pin for connecting a capacitor for the bell filter fo, 4.286MHz.
15	Y IN	I	The Y signal input pin.
16	BELLCONT	I	The pin for selecting the bell filter fo. fo + 70KHz: open ; fo + 35KHz:20k to GND ; fo: to GND. (Connected to GND).
17	SCP-IN	I	The pin to input the sand castle pulse, SCP.
18	VCC	–	VCC pin for logic block.
19	4.43 CW	I	The pin for input 4.43MHz of carrier wave for self adjustment circuit.
20	ID SW	I	The switch pin for selecting the ID detection mode. H + V: connected to VCC ; Auto search: opened ; H: connected to GND. (Not used.)
21	SYSTEM	I/O	The interface pin to the main processor.

IC, MSP3417D

Pin No.	Pin Name	I/O	Description
1	TP	–	Test pin (not used).
2	NC	–	Not connected.
3	D_CTR_OUT1	O	Digital control output 1 (not used).
4	D_CTR_OUT0	O	Digital control output 0 (not used).
5	ADR_SEL	I	I^2C bus address select.
6	STANDBYQ	I	Standby (low active).
7	I^2C_CL	I/O	I^2C clock.
8	I^2C_DA	I/O	I^2C data.
9 ~ 11	TP	I/O	Test pin (not used).
12	TP	–	Test pin (not used).
13 ~ 15	TP	O	Test pin (not used).
16	DVSUP	–	Digital power supply +5V.
17	DVSS	–	Digital GND.
18, 21, 22	TP	I	Test pin (not used).
19	NC	–	Not connected.
20	RESETQ	I	Power-on-reset.
23	VREF2	–	Reference GND 2 high voltage part.
24	TU-R	O	Loudspeaker out, right.
25	TU-L	O	Loudspeaker out, left.
26	NC	–	Not connected.
27, 28	TP	–	Test pin (not used).
29	VREF1	–	Reference GND 1 high voltage part.
30	SC1_OUT_R	O	Scart output 1, right. (not used)
31	SC1_OUT_L	O	Scart output 1, left. (not used)
32	NC	–	Not connected.
33	AHVSUP	–	Analog power supply 8.0V.
34	CAPL_M	–	Volume capacitor main.
35	AHVSS	–	Analog GND.
36	AGNDC	–	Analog reference voltage high voltage part.
37 ~ 40	NC	–	Not connected.
41	SC1_IN_L	I	Scart input 1 in, left.
42	SC1_IN_R	I	Scart input 1 in, right.
43	VREFTOP	–	Reference voltage IF A/D converter.
44	MONO_IN	I	Mono input.
45	AVSS	–	Analog GND.
46	AVSUP	–	Analog power supply +5V.
47	ANA_IN1+	I	IF input 1.
48	ANA_IN-	I	IF common.
49	NC	–	Not connected.
50	TESTEN	I	Test pin.
51	XTAL_IN	I	Crystal oscillator.
52	XTAL_OUT	O	Crystal oscillator.

VOLTAGE CHART

REF NO.	S	D	G
Q2	0.2	5.1	1.0

REF NO.	S	D	G
Q3	5.1	1.2	4.1

REF NO.	E	C	B
Q101	1.2	0.5	8.9

REF NO.	E	C	B
Q104	1.6	9.0	2.2

REF NO.	E	C	B
Q105	3.6	0.0	2.9

REF NO.	E	C	B
Q106	3.6	9.0	4.2

REF NO.	E	C	B
Q108	2.9	9.0	3.6

REF NO.	S	D	G
Q109	0.0	0.8	0.0

REF NO.	S	D	G
Q110	0.0	0.0	5.1

REF NO.	E	C	B
Q301	11.3	11.2	10.6

REF NO.	S	D	G
Q302	0.0	0.0	4.7

REF NO.	E	C	B
Q303	0.0	0.3	4.5

REF NO.	E	C	B
Q401	0.2	2.3	0.2

REF NO.	E	C	B
Q402	0.2	3.2	0.1

REF NO.	E	C	B
Q404	0.2	0.2	0.3

REF NO.	E	C	B
Q407	0.2	0.2	0.0

REF NO.	S	D	G
Q408	0.0	11.1	0.2

REF NO.	S	D	G
Q409	0.2	0.2	4.8

REF NO.	E	C	B
Q414	8.9	0.0	9.1

REF NO.	E	C	B
Q501	0.0	4.5	0.2

REF NO.	E	C	B
Q551	2.8	139.0	3.0

REF NO.	E	C	B
Q552	2.7	141.1	3.0

REF NO.	E	C	B
Q553	2.6	145.1	2.9

REF NO.	E	C	B
Q554	2.0	0.0	1.3

REF NO.	E	C	B
Q601	0.0	–	*

REF NO.	E	C	B
Q602	0.0	63.2	0.4

REF NO.	E	C	B
Q603	0.0	4.2	0.0

REF NO.	E	C	B
Q801	15.2	0.6	14.7

* Refer to Waveform no. 10

REF NO.	1	2	3
Q802	114.7	92.5	0.0

REF NO.	S	D	G
Q803	0.0	0.1	4.5

REF NO.	S	D	G
Q804	4.5	5.1	4.6

REF NO.	S	D	G
Q805	0.0	8.9	0.0

REF NO.	E	C	B
Q806	4.8	0.0	5.7

REF NO.	E	C	B
Q901	2.5	0.0	1.8

REF NO.	E	C	B
Q902	0.0	9.0	0.9

REF NO.	E	C	B
Q903	0.0	9.0	0.8

REF NO.	E	C	B
Q904	0.0	2.5	0.1

REF NO.	E	C	B
Q905	0.0	0.0	0.1

REF NO.	E	C	B
Q906	0.0	0.0	0.1

REF NO.	E	C	B
Q908	0.9	8.9	1.4

REF NO.	E	C	B
Q909	0.8	8.9	1.4

REF NO.	E	C	B
Q910	1.5	6.8	2.1

REF NO.	E	C	B
Q911	7.4	2.4	6.8

REF NO.	E	C	B
Q912	1.8	9.0	2.4

IC1, TMP87CP38N

PIN NO.	VOLT (V)
1	0.0
2~3	5.1
4	0.0
5	0.0
6	5.1
7~9	0.0
10~12	5.1
13	4.6
14	5.1
15	0.0
16	2.6
17	2.2
18	5.1
19	0.0
20	0.7
21~25	0.0
26	4.2
27	4.5
28~29	5.1
30	0.0
31	2.2
32	2.5
33	5.1
34~35	0.1
36	5.1
37~38	5.0
39~40	5.1
41	0.1
42	5.1

IC2, BMR-0101D

PIN NO.	VOLT (V)
1	5.1
2	0.0
3	0.1

IC3, SBX1981-72P

PIN NO.	VOLT (V)
1	5.1
2	0.0
3	5.1

IC4, KS24C041I

PIN NO.	VOLT (V)
1~4	0.0
5~6	5.1
7	0.0
8	5.1

IC101, TC4052BP

PIN NO.	VOLT (V)
1	0.0
2	0.1
3~4	2.2
5	0.1
6~8	0.0
9~10	6.6
11~15	0.0
16	9.1

IC301, TB1240AN

PIN NO.	VOLT (V)
1	3.1
2	4.1
3	8.8
4	5.0
5	0.0
6	0.9
7	1.9
8	4.0
9	4.1
10	2.0
11	3.0
12	0.0
13	0.1
14~16	2.7

IC301, TB1240AN

PIN NO.	VOLT (V)
17	9.0
18	3.0
19	2.9
20	2.8
21	5.9
22	4.1
23	4.8
24	0.7
25	1.8
26	5.0
27	5.0
28	9.2
29	3.5
30	1.4
31	4.6
32	2.0
33	0.0
34	1.2
35	3.6
36	4.9
37	2.6
38	2.6
39	2.9
40	7.1
41	0.7
42	0.0
43	2.9
44	2.3
45	0.2
46	5.0
47	3.5
48	4.5
49	0.0
50	7.9
51	7.9
52	8.8
53	4.5
54	5.6
55	3.5
56	4.4

IC302, TA1275AZ

PIN NO.	VOLT (V)
1	2.9
2	2.1
3~6	2.6
7	2.1
8	2.6
9	5.1
10	2.6
11	0.0
12	2.7
13	4.4
14	2.5
15	2.9
16	0.0
17	0.7
18	5.1
19	2.7
20	2.5
21	3.5

IC401, MM1454XD

PIN NO.	VOLT (V)
1~2	4.3
3	4.9
4	0.3
5~7	4.3
8	0.2
9~13	4.3
14	5.0
15	4.3
16	9.2

IC402, NJM2150

PIN NO.	VOLT (V)
1~7	4.7
8~11	0.2
12	9.1
13~20	4.7

IC403, M62420SP

PIN NO.	VOLT (V)
1	4.7
2~3	4.6
4	4.7
5~6	4.4
7	4.7
8	0.2
9~10	5.2
11~12	5.3
13	0.2
14	4.7
15	4.4
16	4.4
17	4.7
18~19	4.6
20	9.1

IC404, LA6458SLL

PIN NO.	VOLT (V)
1	9.1
2-4	4.7
5	0.2
6~8	4.7
9	9.1

IC409, MM1124B

PIN NO.	VOLT (V)
1~2	4.7
3	4.6
4~6	4.7
7	0.8
8	0.2
9	0.3
10	0.0
11	4.7
12	4.6
13	4.7
14	4.6
15	4.7
16	9.1

IC410, AN5277

PIN NO.	VOLT (V)
1	0.0
2	0.2
3	23.1
4~5	0.2
6	0.0
7	11.4
8	0.8
9	0.0
10	24.3
11	11.1
12	11.6

IC501, LA7832

PIN NO.	VOLT (V)
1	1.9
2	24.0
3	0.6
4	0.7
5	24.4
6	13.7
7	0.0

IC801, STR-F6656

PIN NO.	VOLT (V)
1	0.2
2	0.0
3	295.0
4	15.7
5	0.0

IC802, NJM7805FA

PIN NO.	VOLT (V)
1	11.3
2	0.0
3	5.1

IC701, MSP3417D

PIN NO.	VOLT (V)
1	0.7
2	0.0
3	0.7
4	0.8
5~6	4.9
7~8	5.0
9~11	0.7
12	0.8
13~14	0.7
15	0.6
16	4.9
17	0.0
18	0.7
19~20	0.0
21~22	0.1
23	0.0
24~25	0.1
26	0.0
27~28	3.7
29	0.0
30	3.7
31	8.1
32	0.0
33	8.1
34	7.2
35	0.0
36	3.7
37~40	0.0
41~42	3.7
43	2.6
44	3.7
45	0.0
46	4.9
47~48	1.5
49~50	0.0
51	2.3
52	2.1

IC803, NJM7809FA

PIN NO.	VOLT (V)
1	11.7
2	0.0
3	9.0

IC804, NJM7805FA

PIN NO.	VOLT (V)
1	9.0
2	0.0
3	5.1

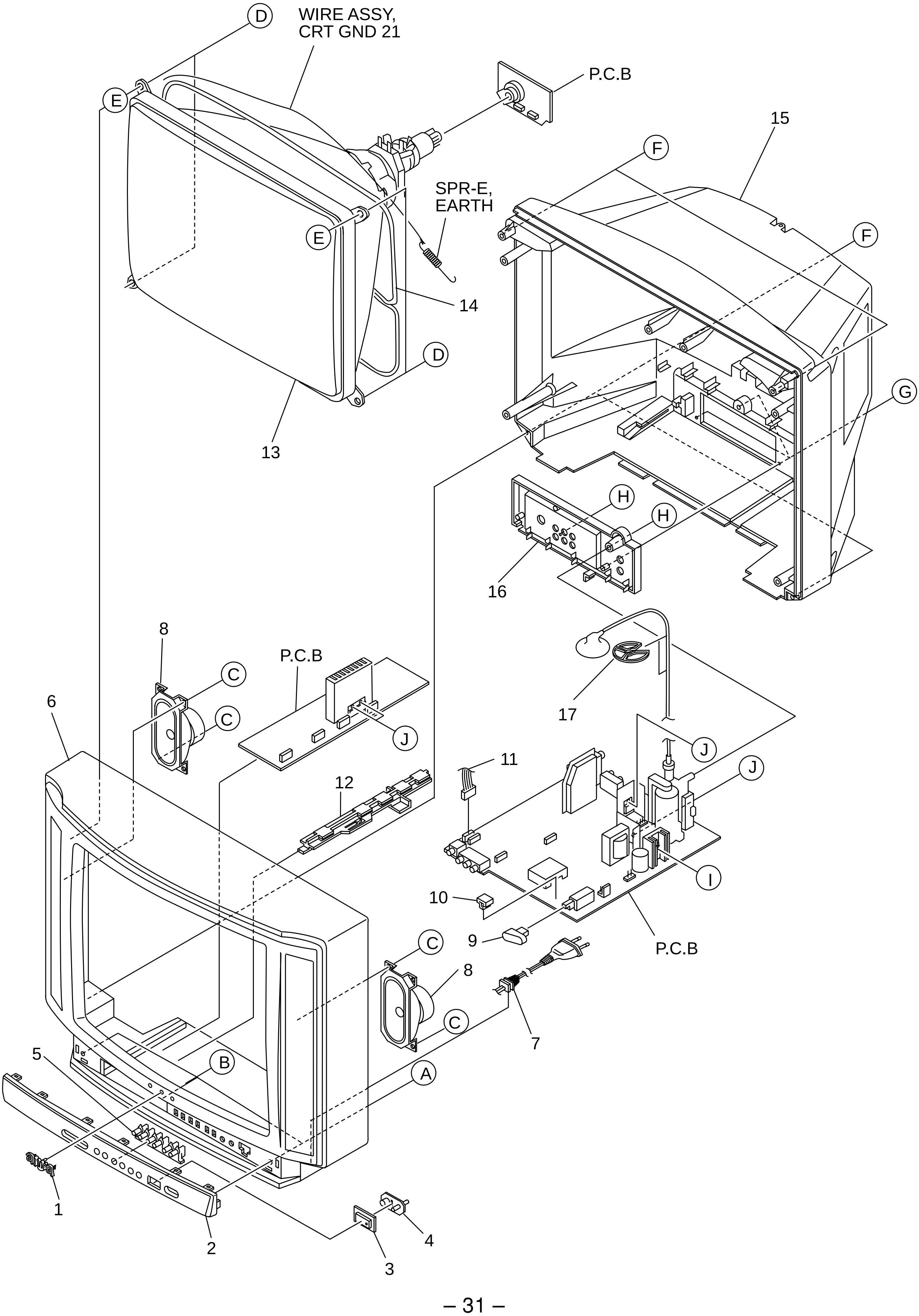
IC901, TC4052BP

PIN NO.	VOLT (V)
1	0.0
2	0.1
3~4	2.2
5	0.1
6~8	0.0
9~10	6.6
11~15	0.0
16	9.1

IC902, TC4052BP

PIN NO.	VOLT (V)
1~2	0.0
3~4	4.1
5	5.0
6~8	0.0
9~10	6.6
11	4.1
12	0.0
13	4.1
14	5.0
15	0.0
16	9.1

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-054-086-010		BADGE,AIWA 52.5
2	8A-JBH-002-010		PANEL,MAIN SA2055
3	8Z-JBR-005-010		LENS,RC
4	8Z-JBR-006-010		LENS,LED
5	8Z-JBR-004-010		KEY,MAIN
6	8A-JBH-001-010		CABI,FR BL
⚠ 7	8Z-JB4-695-010		AC CORD SET,EH BLK
8	8Z-JB4-620-010		SPKR,6*12 8OHM 10W
9	8Z-JB5-007-010		BTN,POWER SH
10	84-LB3-216-010		HLDR,LED
11	8Z-JBX-602-010		CONN ASSY,4P SP 205-0.5
12	8Z-JBR-201-010		HLDR,PCB 1
⚠ 13	86-LB3-601-010		CRT,A48LGS10X08N00
⚠ 14	87-A50-557-010		DGC,20' 15 OHM-TYPE8
15	8Z-JBR-012-010		CABI,REAR N
16	8Z-JB5-010-010		PANEL,REAR SH
17	87-A90-332-010		HLDR,SF-2001 HV CABLE
A	87-067-680-010		BVI T3+3-10
B	87-067-758-010		BVT2+3-12 W/O SLOT
C	87-078-070-010		BVIT3B+4-12
D	86-LBB-206-010		S-SCREW,ASSY TV5-40 W20
E	8Z-JBS-205-010		W-G,10-20-2
F	87-067-844-010		BVT2+4-16 BLK
G	87-067-690-010		TAPPING SCREW, BVIT3+3-12
H	87-067-761-010		TAPPING SCREW, BVT2+3-10
I	87-B10-090-010		BVIT3B+3-12 GOLD
J	87-067-579-010		TAPPING SCREW, BVT2+3-8

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2–11, IKENOHATA 1–CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

9620450 0251431 Printed in Singapore